09/752,867 Page 1

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                 FSTA has been reloaded and moves to weekly updates
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         Feb 01
                 DKILIT now produced by FIZ Karlsruhe and has a new update
                 frequency
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      6 Mar 08
                 Gene Names now available in BIOSIS
NEWS
     7
         Mar 22
                 TOXLIT no longer available
NEWS 8 Mar 22
                 TRCTHERMO no longer available
NEWS 9 Mar 28 US Provisional Priorities searched with P in CA/CAplus
                 and USPATFULL
                 LIPINSKI/CALC added for property searching in REGISTRY
NEWS 10 Mar 28
NEWS 11
         Apr 02
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NEWS 12
         Apr 08
                 "Ask CAS" for self-help around the clock
                BEILSTEIN: Reload and Implementation of a New Subject Area
NEWS 13
        Apr 09
                 ZDB will be removed from STN
NEWS 14
        Apr 09
NEWS 15
         Apr 19
                US Patent Applications available in IFICDB, IFIPAT, and IFIUDB
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                Records from IP.com available in CAPLUS, HCAPLUS, and ZCAPLUS
NEWS 17
         Apr 22 BIOSIS Gene Names now available in TOXCENTER
NEWS 18
         Apr 22
                Federal Research in Progress (FEDRIP) now available
NEWS 19
         Jun 03
                 New e-mail delivery for search results now available
NEWS 20
         Jun 10
                 MEDLINE Reload
                PCTFULL has been reloaded
NEWS 21
        Jun 10
NEWS EXPRESS February 1 CURRENT WINDOWS VERSION IS V6.0d,
              CURRENT MACINTOSH VERSION IS V6.0a(ENG) AND V6.0Ja(JP),
              AND CURRENT DISCOVER FILE IS DATED 05 FEBRUARY 2002
NEWS HOURS
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FILE 'HOME' ENTERED AT 08:51:42 ON 28 JUN 2002

09/752,867

52,867 Page 2

FULL ESTIMATED COST ENTRY SESSION 0.42 0.42

FILE 'HOME' ENTERED AT 08:52:34 ON 28 JUN 2002

=> fil reg COST IN U.S. DOLLARS

FULL ESTIMATED COST

SINCE FILE TOTAL ENTRY SESSION 0.21 0.63

FILE 'REGISTRY' ENTERED AT 08:52:41 ON 28 JUN 2002 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2002 American Chemical Society (ACS)

STRUCTURE FILE UPDATES: 26 JUN 2002 HIGHEST RN 434281-39-7 DICTIONARY FILE UPDATES: 26 JUN 2002 HIGHEST RN 434281-39-7

TSCA INFORMATION NOW CURRENT THROUGH January 7, 2002

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Calculated physical property data is now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details: http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf

=> Uploading 752867 (claim16a).str

L1 STRUCTURE UPLOADED

=> d L1 HAS NO ANSWERS L1 STR

Structure attributes must be viewed using STN Express query preparation.

=> s l1 SAMPLE SEARCH INITIATED 08:53:45 FILE 'REGISTRY' SAMPLE SCREEN SEARCH COMPLETED - 25 TO ITERATE 100.0% PROCESSED 25 ITERATIONS 13 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

COMPLETE BATCH

PROJECTED ITERATIONS: 200 TO 800

PROJECTED ANSWERS: 44 TO 476

13 SEA SSS SAM L1 L2

=> s l1 full

FULL SEARCH INITIATED 08:53:57 FILE 'REGISTRY' FULL SCREEN SEARCH COMPLETED - 672 TO ITERATE

100.0% PROCESSED 672 ITERATIONS 337 ANSWERS

SEARCH TIME: 00.00.01

L3 337 SEA SSS FUL L1

Uploading 752867 (claim 16b).str

STRUCTURE UPLOADED

=> d

L4 HAS NO ANSWERS

STR

Structure attributes must be viewed using STN Express query preparation.

=> s 14

SAMPLE SEARCH INITIATED 08:55:01 FILE 'REGISTRY' SAMPLE SCREEN SEARCH COMPLETED - 45 TO ITERATE

100.0% PROCESSED 45 ITERATIONS 30 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE** BATCH **COMPLETE** PROJECTED ITERATIONS:

498 TO 1302 PROJECTED ANSWERS: 272 TO 928 L5 30 SEA SSS SAM L4

=> s 14 full

FULL SEARCH INITIATED 08:55:08 FILE 'REGISTRY' FULL SCREEN SEARCH COMPLETED - 1107 TO ITERATE

1107 ITERATIONS 100.0% PROCESSED

710 ANSWERS

SEARCH TIME: 00.00.01

L6

710 SEA SSS FUL L4

Uploading 752867 (claim 36a).str

L7 STRUCTURE UPLOADED

=> d

L7 HAS NO ANSWERS

L7

Structure attributes must be viewed using STN Express query preparation.

=> s 17

SAMPLE SEARCH INITIATED 08:56:31 FILE 'REGISTRY' SAMPLE SCREEN SEARCH COMPLETED - 25 TO ITERATE

100.0% PROCESSED

25 ITERATIONS

11 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS:

200 TO

PROJECTED ANSWERS:

22 TO 418

L8

11 SEA SSS SAM L7

=> s 17 full

FULL SEARCH INITIATED 08:56:39 FILE 'REGISTRY' FULL SCREEN SEARCH COMPLETED - 672 TO ITERATE

100.0% PROCESSED 672 ITERATIONS SEARCH TIME: 00.00.01

188 ANSWERS

L9 188 SEA SSS FUL L7

=>

Uploading 752867 (claim 36b).str

L10 STRUCTURE UPLOADED

=> d L10 HAS NO ANSWERS L10 STR

Structure attributes must be viewed using STN Express query preparation.

=> s 110

SAMPLE SEARCH INITIATED 08:57:14 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 45 TO ITERATE

100.0% PROCESSED

45 ITERATIONS

9 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS:

498 TO 13

PROJECTED ANSWERS:

8 TO 1302

THOUSETED THISHERD.

9 TO 360

L11

9 SEA SSS SAM L10

=> s l10 full

FULL SEARCH INITIATED 08:57:20 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 1107 TO ITERATE

100.0% PROCESSED

1107 ITERATIONS

301 ANSWERS

SEARCH TIME: 00.00.01

L12

301 SEA SSS FUL L10

=>

Uploading 752867 (claim 36c).str

L13 STRUCTURE UPLOADED

=> d

L13 HAS NO ANSWERS

L13

STR

Structure attributes must be viewed using STN Express query preparation.

=> s l13

SAMPLE SEARCH INITIATED 08:58:05 FILE 'REGISTRY' SAMPLE SCREEN SEARCH COMPLETED - 25 TO ITERATE

100.0% PROCESSED

25 ITERATIONS

12 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS:

800 200 TO

PROJECTED ANSWERS:

33 TO 447

L14

12 SEA SSS SAM L13

=> s 113 full

FULL SEARCH INITIATED 08:58:10 FILE 'REGISTRY' FULL SCREEN SEARCH COMPLETED - 672 TO ITERATE

100.0% PROCESSED 672 ITERATIONS

SEARCH TIME: 00.00.01

270 ANSWERS

270 SEA SSS FUL L13

Uploading 752867 (claim 36d).str

L16 STRUCTURE UPLOADED

=> d

L16 HAS NO ANSWERS

STR

Structure attributes must be viewed using STN Express query preparation.

=> s 116

SAMPLE SEARCH INITIATED 08:59:27 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 45 TO ITERATE

100.0% PROCESSED 45 ITERATIONS

15 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS: 498 TO 1302

PROJECTED ANSWERS: 68 TO 532

L17 15 SEA SSS SAM L16

=> s l16 full

FULL SEARCH INITIATED 08:59:34 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 1107 TO ITERATE

100.0% PROCESSED 1107 ITERATIONS 335 ANSWERS

SEARCH TIME: 00.00.01

L18 335 SEA SSS FUL L16

=> fil .search

COST IN U.S. DOLLARS SINCE FILE TOTAL

FULL ESTIMATED COST ENTRY SESSION 843.96 844.59

FILE 'MEDLINE' ENTERED AT 08:59:46 ON 28 JUN 2002

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FILE 'USPATFULL' ENTERED AT 08:59:46 ON 28 JUN 2002 CA INDEXING COPYRIGHT (C) 2002 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'EMBASE' ENTERED AT 08:59:46 ON 28 JUN 2002 COPYRIGHT (C) 2002 Elsevier Science B.V. All rights reserved. => d his (FILE 'HOME' ENTERED AT 08:51:42 ON 28 JUN 2002) FILE 'HOME' ENTERED AT 08:52:34 ON 28 JUN 2002 FILE 'REGISTRY' ENTERED AT 08:52:41 ON 28 JUN 2002 L1STRUCTURE UPLOADED 13 S L1 L2L3337 S L1 FULL L4STRUCTURE UPLOADED L5 30 S L4 710 S L4 FULL L6 L7 STRUCTURE UPLOADED L811 S L7 L9 188 S L7 FULL L10 STRUCTURE UPLOADED L119 S L10 301 S L10 FULL L12 L13 STRUCTURE UPLOADED L14 12 S L13 L15 270 S L13 FULL L16 STRUCTURE UPLOADED L17 15 S L16 L18 335 S L16 FULL FILE 'MEDLINE, CAPLUS, BIOSIS, USPATFULL, EMBASE' ENTERED AT 08:59:46 ON 28 JUN 2002 => s 13 or 16 or 19 or 112 or 115 or 118 4 FILES SEARCHED... 148184 L3 OR L6 OR L9 OR L12 OR L15 OR L18 => s l19 and (ligand? or chelat?) 2030 L19 AND (LIGAND? OR CHELAT?) => s 120 and (metal or metals) 261 L20 AND (METAL OR METALS) => s 121 and (folate?) L22 72 L21 AND (FOLATE?) => dup rem 121 PROCESSING COMPLETED FOR L21 L23 245 DUP REM L21 (16 DUPLICATES REMOVED) => dup rem 122 PROCESSING COMPLETED FOR L22 L24 71 DUP REM L22 (1 DUPLICATE REMOVED) => d ibib ab hitstr 1-YOU HAVE REQUESTED DATA FROM 71 ANSWERS - CONTINUE? Y/(N):Y

L24 ANSMER 1 OF 71 USPATFULL
ACCESSION NUMBER: 2002:99503 USPATFULL
Compositions and oethods for treating or preventing diseases of body passageways
INVENTOR(S): Hunter, William L., Vancouver, CANADA Machan, Lindsay S., Vancouver, CANADA

WIMBER KIND DATE
US 2002052404 A1 20020502
US 2001-931652 A1 20010820 (9)
Continuation of Ser. No. US 1996-653207, filed on 24
Nay 1996, UNKNOWN
UEILITY
APPLICATION
SEED INTELLECTION PATENT INFORMATION: APPLICATION INFO.: RELATED APPLN. INFO.:

DOCUMENT TYPE:

PILE SEGMENT: LEGAL REPRESENTATIVE: SEED INTELLECTUAL PROPERTY LAW GROUP PLLC, 701 FIFTH AVE, SUITE 6300, SEATTLE, WA, 98104-7092

LEGAL REPRESENTATIVE:

NUMBER OF CLAIMS:

14
EXEMPLARY (LAIM:

15
NUMBER OF DRAWINGS:

476

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention provides methods for treating or preventing diseases associated with body passageways, comprising the step of delivering to an external portion of the body passageway a therapeutic agent. Representative examples of therapeutic agents include anti-angiogenic factors, anti-proliferative agents, anti-inflammatory agents, and antibiotics.

IT 59-05-2, Methodrexate (compns. for treating or preventing diseases of body passageways)

RN 59-05-2 USPATFULL

CN L-Glutamic acid.

N-[4:[(2,4-diamino-6-pteridinyl)methylamino]benzo yll-[9CI] (CA INDEX NAME)

Absolute stereochemistry.

L24 ANSWER 2 OF 71 USPATFULL (Continued)

L24 ANSWER 2 OF 71 USPATFULL ACCESSION NUMBER: 2002:9

INVENTOR (S) :

PATPULL
2002:99090 USPATFULL
Method for the detection of an analyte by means of a
nucleic acid reporter
Baez, Luis, West Chester, PA, UNITED STATES
Ebersole, Richard C., Newark, DE, UNITED STATES
Hendrickson, Edwin R., Hockessin, DE, UNITED STATES
Neelkantan, Neel, Newark, DE, UNITED STATES
Perry, Michael P., Downington, PA, UNITED STATES

NUMBER KIND DATE

A1 20020502 A1 20010516 (9) PATENT INFORMATION: APPLICATION INFO.: US 2002051986 US 2001-858994

NUMBER DATE

PRIORITY INFORMATION: US 2000-211293P 20000613 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: USILITY
FILE SEGMENT: E I DU PONT DE NEMOURS AND COMPANY, LEGAL DEPARTMENT PATENTS, 1007 MARKET STREET, WILMINGTON, DE, 19898

NUMBER OF CLAIMS: 25

EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 9 Drawing Page(s)
LIME COUNT: 2070

CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB A process is disclosed for the detection of an analyte utilizing a nucleic scid label as a reporter. The analyte is detected by the

binding

of at least two reporter conjugates, each conjugate comprising a member of a binding pair and a nucleic acid label. The binding of reporter conjugates to the analyte facilitates the juxtaposition of the nucleic acid labels, forming a single nucleic acid amplicon. The amplicon may then be detected directly, or may be used as a template of the generation of amplification products. Detection of the analyte by this process significantly reduces assay background caused by non-specific reporter conjugate binding.

15 5-10-3, Folic acid, uses (method for detection of snalyte by means of a nucleic acid reporter)

No 59-30-3 USPATPULL

CN L-Glutamic acid, N-4-{[(2-amino-1,4-dihydro-4-oxo-6-pteridinyl]methyl]amino|bezoyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L24 ANSWER 3 OF 71 USPATFULL

ACCESSION NUMBER:

PATFULL
2002:60709 USPATFULL
Nutritional composition
Kirschner, Mitchell I., St. Louis, MO, UNITED STATES
Levison, R. Saul, Chesterfield, MO, UNITED STATES
Paradissis, George N., St. Louis, MO, UNITED STATES
DRUGTECH COR INVENTOR (S) :

PATENT ASSIGNEE(S):

NUMBER KIND DATE

US 2002034543 A1 20020321
US 2001-949710 A1 20010912 (9)
Continuation of Ser. No. US 1999-451849, filed on 1

PATENT INFORMATION: APPLICATION INFO.: RELATED APPLN. INFO.: Dec

DOCUMENT TYPE: FILE SEGMENT: LEGAL REPRESENTATIVE:

1999, PENDING Utility APPLICATION Gary M. Nath, NATH & ASSOCIATES PLLC, 6th Ploor, 1030 15th Street, Washington, DC, 20005 120

ASSOCIATES PLLC, 6th Ploor, 1030

15th Street, Washington, DC, 20005

NUMBER OF CLAIMS: 120

EXEMPLARY CLAIM: 1

LINE COUNT: 1540

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present inventive subject matter is directed to novel chewable prenatal nutritional supplements which contain vitamin C, as well as novel methods for providing optimal vitamin C supplementation to pregnant women. The present invention is also directed to novel compositions and methods for providing nutritional supplementation to individuals planning to conceive a child.

IT 59-10-3, Folic acid, biological studies

(nutritional compn. comprising vitamin C)

RN 59-30-3 USPATPULL

CN L-Glutamic acid, N-[4-[[(2-amino-1,4-dihydro-4-oxo-6-pteridiny])methyl] maino]benzoyl]- (9CI) (CA INDEX NAME)

09/752,867 Page 10

L24 ANSWER 4 OF 71 USPATFULL
ACCESSION NUMBER: 2002:37336 USPATFULL
TITLE: Transdermal delivery system
INVENTOR(S): Dransfield, Charles William, Lake Cethie, AUSTRALIA

NUMBER KIND DATE US 2002022052 A1 20020221 A1 20010524 (9) PATENT INFORMATION: APPLICATION INFO.: US 2001-863764

NUMBER AU 2000-8885 20000721 AU 2000-6691 20000406 Utility APPLICATION Paul F. McQuade, GREENBERG TRAURIG, 12th FLOOR, 1750 TYSONS BLVD., MCLEAN, VA, 22102 32 DATE PRIORITY INFORMATION:

FILE SEGMENT: LEGAL REPRESENTATIVE:

UMBER OF CLAIMS:

NUMBER OF CLAIMS: 32
EXEMPLARY CLAIM: 1
NUMERS OF DRAWINGS: 3 Drawing Page(s)
LINE COUNT: 1141
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB A transdermal or transmithation.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A transdermal or transepithelial composition and a method for making a transdermal or transepithelial composition substantially free of water comprising a biologically active agent in the form of microfined particles, sized less than 2 microns down to less than 0.1 microns, which by massage pressure are mechanically entrained within the interstices of the stratum corneum. Particles less than 0.5 microns do not require a carrier for entrainment. Delivery into mucosal epithelia is obtained by particles less than one micron with delivery increasing with decreasing particle size.

IT 59-30-3, Polic acid, biological studies

(water-free transdermal and transepithelial drug delivery systems)

RN 59-30-3 USPATFULL

CN L-Glutamic acid, N-(4-[[(2-amino-1,4-dihydro-4-oxo-6-pteridinyl]methyl]amino]benzoyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L24 ANSWER 5 OF 71 USPATFULL (Continued)

L24 ANSWER 5 OF 71 USPATFULL
ACCESSION NUMBER: 2002:27445 USPATFULL
TITLE: Playopiridol drug combinations and methods with reduced

mide effects
Ratain, Mark J., Chicago, IL, UNITED STATES
Innocenti, Federico, Chicago, IL, UNITED STATES
Iyer, Lalitha, Chicago, IL, UNITED STATES INVENTOR (5) :

PATENT INFORMATION:

US 2002016293 A1 20020207
US 2001-835082 A1 20010412 (9)
Continuation-in-part of Ser. No. US 2000-553829, filed on 21 Apr 2000, PENDING Utility
APPLICATION
Gina N. Shishi-APPLICATION INFO.: RELATED APPLN. INFO.:

DOCUMENT TYPE:

FILE SEGMENT: LEGAL REPRESENTATIVE: Gina N. Shishima, Pulbright & Jaworski L.L.P., Suite 2400, 600 Congress Avenue, Austin, TX, 78701

NUMBER OF CLAIMS: EXEMPLARY CLAIM: NUMBER OF DRAWINGS: LINE COUNT: 7 Drawing Page(s)

LINE COURT:
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB This invention provides methods, formulations and kits to reduce the toxicity of flavopiridol and analogs thereof. Disclosed are

toxicity of travopritorial analogs cheeses. School travopritorial analogs cheeses and treatment methods employing such drugs in combination with agents that increase conjugative enzyme activity or glucuronosyltransferase activity, and agents that decrease biliary transport protein activity, such as cyclosporine A, the resultant effects of which are to decrease the significant side effects previously associated with treatment using these drugs. The invention also characterizes specific isoforms of glucuronyltransferase enzymes involved in glucuronidation of flevopiridols and their analogs.

IT 59-30-30, reduced

(flavopiridol drug combinations with glucuronosyltransferase activity enhancer and methods with reduced side effects by enhancing its

D.) 59-30-3 USPATFULL L-Glutamic acid, N-[4-[[(2-amino-1,4-dihydro-4-oxo-6-pteridinyl)methyl}amino|benzoyl]- (9CI) (CA INDEX NAME)

L24 ANSWER 6 OF 71 USPATFULL

ACCESSION NUMBER: TITLE:

2002:8204 USPATFULL In vivo screen using chemical inducers of dimerization Cornish, Virginia W., New York, NY, UNITED STATES NUMBER KIND DATE

US 2002004202 A1 20020110
US 2001-768479 A1 20010124 (9)
Continuation-in-part of Ser. No. US 2000-490320, filed on 24 Jan 2000, PENDING
ULility
APPLICATION
John P. White, Cooper & Dunham LLP, 1185 Avenue of the Americas, New York, NY, 10016
140 INVENTOR (S):

PATENT INFORMATION: APPLICATION INFO

RELATED APPLN. INFO.:

DOCUMENT TYPE:

LEGAL REPRESENTATIVE:

NUMBER OF CLAIMS: EXEMPLARY CLAIM: NUMBER OF DRAWINGS: LINE COUNT:

EXEMPLARY CLAIM: 1
NUMBER OF DEAWINGS: 23 Drawing Page(s)
LINE COUNT: 260
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB The subject invention provides a compound having the formula:

H1--X--B--Y--H2

wherein each of H1 and H2 may be the same or different and capable of binding to a receptor which is the same or different; wherein each of X and Y may be present or absent and if present, each may be the same or different spacer moiety; and wherein B is an enzyme cleavable moiety. This invention also provides a method of acreening proteins for the ability to catalyze bond cleavage, comprising the steps of:

a) providing a cell that expresses a pair of fusion proteins which upon dimerization change a cellular readout;

b) providing the compound of the invention which dimerizes the pair of fusion proteins, said compound comprising two portions coupled by a

that is cleavable by the protein to be screened; and

c) screening for the cellular readout, wherein a change the cellular readout indicates catalysis of bond cleavage by the protein to be screened. Finally, the invention also provides a method of screening proteins for the ability to catalyze bond formation, comprising the steps of:

b) providing a first compound and a second compound, each being capable of binding to one of the pair of fusion proteins, said first and second compound comprising a portion through which the first and second compounds are coupled to form the inventive compound by the action of the bond forming protein to be screened; and

c) screening for the cellular readout, wherein a change in the cellular readout indicates catalysis of bond formation by the protein to be screened.

IT 389085-33-0 389085-34-1 (yeast three-hybrid system for in vivo drug screening and enzyme avolution using chem. inducers of dimerization)

RN 389085-33-0 USPATFULL

ANSMER 6 OF 71 USPATFULL (Continued)
5-Thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid,
3-[[2-1[[45]-4-carboxy-4-[[4-1[(2,4-diamino-6pteridinyl]methyl]methylamino]benzoyl]amino]-1-

oxobutyl]amino]ethyl]thio]methyl]-7-[{7-[{{11.beta.,17.alpha.}-9-fluoro11,17-dihydroxy-3-oxoandrosta-1,4-dien-17-yl]carbonyl]amino]-1oxoheptyl]amino]-8-oxo-, (6R,7R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

389085-34-1 USPATFULL
5-Thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid,
3-[[2-[[45]-4-carboxy-4-[[4-[{2,4-diamino-6-pteridinyl)methyl]methylamino]benzoyl]amino]-1-

oxobutyl]amino]ethyl]thio]methyl]-7-[[8-[[[(11.beta.,17.alpha.)-9-fluoro-

L24 ANSWER 6 OF 71 USPATFULL (Continued)

L24 ANSMER 6 OF 71 USPATFULL (Continued)
11.17-dihydroxy-3-oxoandrota-1.4-dien-17-yl]carbonyl]amino]-1oxooctyl]amino]-8-oxo-, (6R, 7R)- (9C1) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-B

T 59-05-2D, Methotrexate, conjugates with receptor ligands
(yeast three-hybrid system for in vivo drug screening and enzyme
evolution using chem. inducers of dimerization)
N 59-05-2 USPATPULL
N L-Glutamic acid,
-[4-[[(2,4-diamino-6-pteridinyl)methyl]methylamino}benzo
yl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L24 ANSWER 7 OF 71 USPATFULL

PATFULL

Pusogenic lipids and vesicles

Leamon, Christopher Paul, West Lafayette, IN, United
States

ISIS Pharmaceuticals, Inc., Carlsbad, CA, United ACCESSION NUMBER: INVENTOR (S): PATENT ASSIGNEE(S): (U.S. corporation) NUMBER KIND DATE

NUMBER | Novel | Normation | N

connected to the positive region of the head group which in turn is connected to the negative region by a disulfide bond that is susceptible to cleavage by membrane-bound and intracellular factors. Cleavage of

disulfide bond removes the negatively charged region from the head

group
resulting in a lipid that is cationic and therefor fusogenic with
negatively charged cell membranes. Consequently, lipids of the
invention
are useful as components of liposomes that serve as vehicles for
delivering pharmaceutical agents into cells with reduced toxicity.

IT 300711-56-2P
[fusogenic lipids and vesicles for liposome drug delivery systems]
RN 300711-56-2 USPATFULL
CN Poly(Goxy-1,2-ethanediy1),
.alpha.-hydro-.omega.-[[16-{[3.beta.]-cholest-5-

en-3-yloxy]-11-imino-16-oxo-6,7-dithia-3,12,15-triazahexadec-1-yl]oxy]-,
26-eater with N-[4-[{(2-amino-1,4-dihydro-4-oxo-6-pteridinyl)methyl}amino)benzoyl]-L-.gamma.-glutamyl-N6-carboxy-L-lysine
(9C1) (CA INDEX NAME)

L24 ANSWER 7 OF 71 USPATFULL (Continued)

PAGE 1-A

PAGE 1-B

PAGE 1-C

L24 ANSWER 7 OF 71 USPATFULL (Continued)

PAGE 1-C

L24 ANSWER 7 OF 71 USPATPULL (Continued)

PAGE 1-D

- CHHe2

IT 300711-64-2

| Second | S

Absolute stereochemistry.

PAGE 1-A

$$\begin{array}{c|c} & & & & & & \\ & & & & & \\ & & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ &$$

PAGE 1-B

L24 ANSWER 8 OF 71
ACCESSION NUMBER:
TITLE:
INVENTOR(S):
PATENT ASSIGNEE(S):
Weight assign and lytes
Yuan, Chong-Sheng, San Diego, CA, United States
General Atomics, San Diego, CA, United States
Corporation)

NUMBER KIND DATE
US 6376210 B1 2002042
US 1999-347878 1999070
Utility
GRANTED
Achtutamurthy, Ponnathapu
Saidha, Tekchand
Morrison & Foerster LLP
16 NUMBER KIND DATE

NUMBER KIND DATE

DATE

NUMBER KIND DATE

Separation: US 6376210 B1 20020423

APPLICATION INFO: US 1999-147678 19990706 (9)

DOCUMENT TYPE: Utility
FILE SEGMENT: GRANTED

PRIMARY EXAMINER: Achutamurthy, Ponnathapu

Ssidhar TEXAMINER: Soldha, Tekchand

NUMBER OF CLAIMS: 16

EXEMPLARY CLAIM: 1

NUMBER OF DERMINGS: 4 Drawing Figure(a); 4 Drawing Page(s)

MOUST OF DERMINGS: 4 Drawing Figure(b); 4 Drawing Page(s)

DIME COUNT: 9004

AB Compositions and methods for assaying analytes, preferably, small molecule analytes. Assay methods that employ, in place of antibodies or molecules that bind to target analytes or substrates, modified enzymes, called substrate trapping enzymes. These modified enzymes retain

molecules that bind to target analytes or substrates, monition enzymes, called substrate trapping enzymes. These modified enzymes retain binding

affinity or have enhanced binding affinity for a target substrate or analyte, but have attenuated catalytic activity with respect to that substrate or analyte. The modified enzymes are also provided. In particular, a mutant S-adenosylhomocysteine (SAH) hydrolases, substantially retaining binding affinity or having enhanced binding affinity for Hcy or SAH but having attenuated catalytic activity, are provided. Also provided are methods, combinations, kits and articles of manufacture for assaying analytes, preferably small molecule analytes such as inorganic ions, amino acids (e.g., homocysteine), peptides, nucleosides, nucleotides, oligonaccharides, lipids (e.g., cholesterol), organic acids (e.g., folate species, bile acids and uric acids).

IT 59-30-3, analysis

(methods and compns. for assaying analytes)

RN 59-30-3 USPATPULL

CN L-Glutamic acid, N-4-{[(2-amino-1,4-dihydro-4-oxo-6-precidinyl)methyl]amino|benzoyl]- (SCI) (CA INDEX NAME)

Absolute stereochemistry.

09/752,867 Page 13

L24 ANSWER 9 OF 71
ACCESSION NUMBER:
TITLE:
INVENTOR(S):
Levinson, R. Saul, Chesterfield, MO, United States
PATENT ASSIGNEE(S):
Drugtech Corporation, Wilmington, DE, United States
(U.S. corporation)

DATE

KIND Bl 20020305 19991201 (9)

NUMBER

PATENT INFORMATION: APPLICATION INFO.: DOCUMENT TYPE: FILE SEGMENT: PRIMARY EXAMINER: ASSISTANT EXAMINER: LEGAL REPRESENTATIVE: JORDWIA US 6352713 US 1999-451849 Utility GRANTED

Page, Thurman K.
Tran, S.
Nath & Associates PLLC, Nath, Gary M., Goldberg,

NUMBER OF CLAIMS: 51
EXEMPLARY CLAIM: 51
NUMBER OF DRAWINGS: 0 Drawing Figure (8
LINE COUNT: 1297
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB The present inventive subject of the present inventive 1
0 Drawing Figure(s); 0 Drawing Page(s)

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present inventive subject matter is directed to novel chewable prenatal nutritional supplements which contain vitamin C, as well as novel methods for providing optimal vitamin C supplementation to pregnant women. The present invention is also directed to novel compositions and methods for providing nutritional supplementation to individuals planning to conceive a child.

IT 59-30-3, Folic acid, biological studies (nutritional compn. comprising vitamin C)

RN 59-30-3 USPATFULL

CN L-Glutamic acid, N-[4-[[(2-amino-1,4-dihydro-4-oxo-6-pteridinyl]methyl]amino]benzoyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L24 ANSWER 10 OF 71 USPATFULL

Absolute stereochemistry.

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L24 ANSWER 10 OF 71 USPATFULL ACCESSION NUMBER: 2002:140 TITLE: Reagent
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2002:14058 USPATFULL

2002:14058 USPATFULL
Reagent system and method for increasing the
luminescence of lanthanide(III) macrocyclic complexes
Leif, Robert C., 5648 Toyon Rd., San Diego, CA, United
States 92115-1022
Vallarino, Lidia, 1009 West Ave, Richmond, VA, United
States 23220 INVENTOR(S):

DATE NUMBER KIND US 6340744 US 2000-484670 B1 20020122 20000118 (9) PATENT INFORMATION: APPLICATION INFO.:

NUMBER DATE

PRIORITY INFORMATION: DOCUMENT TYPE: FILE SEGMENT:

US 1999-116316P 19990119 (60)
ULility
GRAMTED
Hartley, Michael G.
Schwartz, Robert M., Kauder, Otto S., Hibnick, Gerald
R. PRIMARY EXAMINER: LEGAL REPRESENTATIVE:

NUMBER OF CLAIMS: EXEMPLARY CLAIM: NUMBER OF DRAWINGS: LINE COUNT: 40

NUMER OF CLAIMS: 40
EXEMPLARY CLAIM: 1
NUMER OF DRAWINGS: 13 Drawing Figure(e); 13 Drawing Page(e)
LINE COUNT: 2136
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB Disclosed are a spectrofluorimetrically detectable luminescent composition and processes for enhancing the luminescence of one or more lanthanide-containing macrocycles. The luminescent composition

a micelle-producing amount of at least one surfactant, at least one energy transfer acceptor lanthanide element macrocycle compound having an emission spectrum peak in the range from 500 to 950 nanometers, and

a luminescence-enhancing amount of at least one energy transfer donor compound of yttrium or a 3-valent lanthanide element having atomic number 59-71, provided that the lanthanide element of said macrocycle compound and the lanthanide element of said energy transfer donor compound are not identical. The addition of gadolinium(III) in the presence of other solutes to both the prototype and the difunctionalized europium, samarium, and terbium macrocyclic complexes, which were taught

in our U.S. Pat. Nos. 5,373,093 and 5,696,240, enhances their luminescence. Similar enhancements of luminescence also results for the mono-functionalized europium, samarium, and terbium macrocyclic complexes, which were taught in our U.S. Pat. No. 5,696,240. The enhanced luminescence afforded by the composition enables the detection and/or quantitation of many analytes in low concentrations without the use of expensive, complicated time-gated detection systems.

59-10-3, Polic acid, analysis

(a reagent system and method for increasing luminescence of lanthanide(iii) macrocyclic complexes)

59-30-3 USPATFULL

1-Glutanic acid, N-[4-[[(2-amino-1,4-dihydro-4-oxo-6-pteridinyl)methyl]amino]benzoyl]- (9CI) (CA INDEX NAME)

L24 ANSWER 11 OF 71 USPATFULL

ACCESSION NUMBER: TITLE: 2001:224132 USPATFULL

INVENTOR (S):

2001:2413 USPATFULL
Antioxidant enhancement of therapy for
hyperproliferative conditions
Chinery, Rebecca, Nashville, TN, United States
Beauchamp, R. Daniel, Nashville, TN, United States
Coffey, Robert J., Woodside, CA, United States
Medford, Russell M., Atlanta, GA, United States
Wadzinski, Brian E., Nashville, TN, United States

NUMBER KIND DATE

US 2001049349 A1 20011206

US 2001-779086 A1 20010207 (9)

Continuation of Ser. No. US 1998-108609, filed on 1

APPLICATION INFO.: RELATED APPLN. INFO.:

DOCUMENT TYPE:

1998, ABANDONED Continuation of Ser. No. US
1997-967492, filed on 1 Nov 1997, ABANDONED
Continuation-in-part of Ser. No. US 1997-886653, filed
on 1 Jul 1997, ABANDONED
Utility
APPLICATION
Sherry M. Knowles, Eaq., KING & SPALDING, 45th Ploor,
191 Peachtree Street, N.E., Atlanta, GA, 30303
30 LEGAL REPRESENTATIVE:

PATENT INFORMATION:

NUMBER OF CLAIMS: EXEMPLARY CLAIM: NUMBER OF DRAWINGS: LINE COUNT: 28 Drawing Page(s)

NUMBER OF DRAWINGS: 28 Drawing Page(s)
LINE COUNT: 2553

CAS INDEXING IS AVAILABLE POR THIS PATENT.

A method to enhance the cytotoxic activity of an antineoplastic drug comprising administering an effective amount of the antineoplastic drug to a host exhibiting abnormal cell proliferation in combination with an effective cytotoxicity-increasing amount of an antioxidant. The invention also includes a method to decrease the toxicity to an antineoplastic agent or increase the therapeutic index of an antineoplastic agent administered for the treatment of a solid growth of

of abnormally proliferating cells, comprising administering an antioxidant prior to, with, or following the antineoplastic treatment.

IT 59-05-2 Methotrexate 18475-36-6, Methotrexate acodium (antioxidant enhancement of therapy for hyperproliferative conditions)

RN 59-05-2 USPATPULL
CN L-Glutamic acid,
N-[4-[(2,4-diamino-6-pteridinyl]methyl]methylamino]benzo
yl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

15475-56-6 USPATPULL

L24 ANSMER 11 OF 71 USPATFULL (Continued)
CN L-Glutamic acid,
N-[4-[{2,4-diamino-6-pteridinyl}methyl]methylamino]benzo
yll-, sodium salt [9C1] (CA INDEX NAME)

Absolute stereochemistry.

●x Na

1.24 ANSWER 12 OF 71 USPATFULL
ACCESSION NUMBER: 2001:231698 USPATFULL
TITLE: Radioactive therapeutic liposoces
INVENTOR(S): Larsen, Roy H., Bekkestus, Norway
Henriksen, Gjermind, Mjondalen, Norway

NUMBER KIND DATE

PATENT INFORMATION: US 2001048914 Al 20011206
APPLICATION INFO.: US 2001-790260 Al 20010221 (9)

NUMBER DATE

PRIORITY INFORMATION: NO 2000-855 2000221
WO 2001-No65 20010221

DOCUMENT TYPE: Utility
FILE SEDMENT: US 2001-790260
LECAL REPRESENTATIVE: CLARK & ELBING LLP, 176 FEDERAL STREET, BOSTON, MA, 02110-2214

NUMBER OF CLAIMS: 32
EXEMPLARY CLAIM: 1 1005
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB The present invention relates to a conjugator system comprising liposomes with ionophores, and with chalator solution and alpha-particle emitting radionuclide(s) located inside of the liposome. Purthermore, a the method for the preparation of this type of radioactive liposomes is described, as well as use of the system and a kit for preparing the system.

IT 59-30-3UPA, Polic acid, conjugates
(radioactive therapeutic liposomes conjugated to proteins or other receptor-affinic mole.)

EN 59-30-3 USPATFULL
CN L-Glutamic acid, N-(4-{({2-amino-1,4-dihydro-4-oxo-6-pteridinyl)methyl)aminolbenzoyll- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

CRN 7209-38-3 CMF C10 H24 N4

NAME)

(CH₂)₃-NH₂

CM 2

CRN 69-78-3 CMF C14 H8 N2 O8 S2 L24 ANSWER 13 OF 71 USPATFULL (Continued)

CM 3

CRN 59-30-3 CMF C19 H19 N7 06 CDES 5:L

L24 ANSWER 14 OF 71 USPATFULL

ACCESSION NUMBER: 2001:114360 USPATFULL

Receptor binding conjugates

Laren, Roy H., Bekkestua, Norway

Henriksen, Gjermund, Mjondalen, Norway

NUMBER KIND DATE US 2001008625 US 2000-731301 PATENT INFORMATION: APPLICATION INFO.: A1 20010719 A1 20001205 (9)

NUMBER

NO 1999-5978 Utility APPLICATION 19991206

PRIORITY INFORMATION: DOCUMENT TYPE: PILE SEGMENT: LEGAL REPRESENTATIVE:

Paul T. Clark, Clark & Elbing LLP, 176 Federal Street, Boston, MA, 02110

DATE

ROUBER OF CLAIMS: 24
EXEMPLARY CLAIMS: 1
NUMBER OF DRAWINGS: 6 Drawing Page(s)
LINE COUNT: 774
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB The present invention relates.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB

The present invention relates to a receptor binding conjugate which consists of an antibody, a radionuclide and folate or a falate derivative, wherein or not the conjugate possesses dual binding ability. The present invention also relates to a method and a kit to prepare, as well as a method to use, such conjugates. Purthermore, the use of a conjugate according to the present invention to prepare a pharmaceutical solution is disclosed.

IT 59-10-10P, (derival. conjugates (receptor binding conjugates comprising antibody and radionuclide and folate for radiotherapy and imaging)

RN 59-30-3 USPATFULL

CL-Olutamic acid, N-[4-{{(2-amino-1,4-dihydro-4-oxo-6-pteridinyl)methyl)amino|benzoyl|- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

IT 59-30-3, Polic acid, reactions
(receptor binding conjugates comprising antibody and radionuclide and
folate for radiotherapy and imaging)
RN 59-30-3 USPATFULL

To late for radiotherapy and imaging, 59-30-3 USPATPULL
L-Glutamic acid, N-[4-[[(2-amino-1,4-dihydro-4-oxo-6-pteridinyl)methyl]amino|benzoyl]- (9CI) (CA INDEX NAME)

L24 ANSWER 15 OF 71 USPATFULL ACCESSION NUMBER: 2001:95

SPATFULL
2001:95283 USPATFULL
Matal complexes derivatized with
folate for use in diagnostic and therapeutic

INVENTOR (S)

totale for use in diagnostic and therapeutic applications wedgeking, Paul W., Pennington, NJ, United States Wager, Ruth E., Rockville, MD, United States Arunachalam, Thangavel, Plainsboro, NJ, United States Ramalingam, Kondareddiar, Dayton, NJ, United States Linder, Karen E., Kingston, NJ, United States Ranganathan, Ramachandran S., Princeton, NJ, United States Num. Advian D. Lamberville NJ, United States

States Nunn, Adrian D., Lambertville, NJ, United States Raju, Natarajan, Kendall Park, NJ, United States Tweedle, Michael F., Princeton, NJ, United States

NUMBER KIND DATE

US 2001004454 A1 20010621
US 2000-752867 A1 20001230 (9)
Division of Ser. No. US 2000-477072, filed on 3 Jan
2000, PENDING Division of Ser. No. US 1998-80157, PATENT INFORMATION: APPLICATION INFO.: RELATED APPLN, INFO.:

filed

DOCUMENT TYPE:

on 16 May 1998, GRANTED, Pat. No. US 6093382
Utility
APPLICATION
The Law Offices of Imre Balogh, 276 Smith School Road,
Perkasie, PA, 18944
127 FILE SEGMENT: LEGAL REPRESENTATIVE:

NUMBER OF CLAIMS:

EXEMPLARY CLAIM: NUMBER OF DRAWINGS:

32 Drawing Page(s)

LINE COUNT: 4979

LINE COUNT: 4979

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Diagnostic and therapeutic compositions in the form of complexes for enhancing transmembrane transport of a diagnostic or therapeutic agent and methods for their use. The complexes contain the .alpha., .gamma., or bis isomers of folate receptor-binding analogs of folate, a matal chalated by a ligand

and in one embodiment, a chemotherapeutic agent.

17 25.008-37-49 25.008-0-3P 25.008-43-2P 25.008-43-2P (prepn. and reactant for prepn. of metal complexes for use in diagnostic and therapeutic applications)

RN 25.0084-37-4 USPATPULL

N. 1,4,7.0-Tetrasazevylododecane-1,4,7-triscetic acid. 10-[2-[[4-[[45]]-4-

1,4,7,10-Tetraazacyclododecane-1,4,7-triacetic acid, 10-[2-[[4-[[(4S)-4-

[[4-[[(2-amino-1,4-dihydro-4-oxo-6-pteridinyl)methyl]amino]benzoyl]amino]-4-carboxy-1-oxobutyl]amino]phenyl]amino]-2-oxoethyl]- (9Cl) (CA INDEX

NAME)

Absolute stereochemistry.

L24 ANSWER 14 OF 71 USPATFULL (Continued)

Absolute stereochemistry.

L24 ANSWER 15 OF 71 USPATFULL (Continued)

PAGE 1-A

PAGE 1-B

251084-40-9 USPATPULL 1,4,7,10-Tetraazacyclododecane-1,4,7-triacetic acid, 10-{2-{[4-{[(25)-2-

[[4-[[(2-amino-1,4-dihydro-4-oxo-6-pteridinyl)methyl]amino]benzoyl]amino]-4-carboxy-1-oxobutyl]amino]phenyl]amino]-2-oxoethyl]- [9CI) (C

PAGE 1-A

PAGE 1-B

251084-43-2 USPATFULL

1,4,7,10-Tetraazacyclododecane-1,4,7-triacetic acid, 10,10'-[{(25)-2-{[4-{({(2-amino-1,4-dihydro-4-oxo-6-pteridinyl) methyl]amino| benzoyl]amino|-1,5-dioxo-1,5-pentanediyl]bis[imino-4,1-phenyleneimino(2-oxo-2,1-ethanediyl)]bis- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

Absolute stereochemistry.
Double bond geometry unknown.

251084-50-1 USPATFULL
Technetate(1-)-99Tc, [(4s)-4-[[4-{[(2-amino-1,4-dihydro-4-oxo-6-pteridinyl)methyl]amino]bezoyl]mmino]-9,17-bis(hydroxyimino-.kapps.N)-10,10,16,16-tetramethyl-5-oxo-14-oxa-6,11,15-triazaoctadecanoato(4-)}-, hydrogen, (SP-5-15)- (9CI) (CA INDEX NAME)

L24 ANSWER 15 OF 71 USPATFULL (Continued)

PAGE 1-B

PAGE 1-A

RN 251084-49-8 USPATFULL CN 5-0xa-4,8,13-triazaoctadecan-18-oic acid, 15-[[4-[[(2-amino-1,4-dihydro-4-

L24 ANSWER 15 OF 71 USPATFULL (Continued)

L24 ANSMER 15 OF 71 USPATFULL (Continued)
3,3,9,9-tetramethyl-14-oxo-, (178)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Double bond geometry unknown

PAGE 1-B

tetraazacyclododecane-1,4,7-triacetato(4-)-.kappa.N1,.kappa.N4,.kappa.N7,,kappa.N10..kappa.01,.kappa.04,.kappa.07}-, sodium (9CI) (CA INDEX NAME)

L24 ANSWER 15 OF 71 USPATFULL (Continued)

PAGE 1-R

251084-41-0 USPATFULL
Gadolinate(1-), {10-{2-[(4-{[2-{[4-{[(2-amino-1,4-dihydro-4-oxo-6-pteridinyl)methyl|amino|benzoyl]amino|-4-carboxy-1-oxobutyl|amino|phenyl|amino|-2-(oxo-.kappa.0)ethyl}-1,4,7,10-

tetraazacyclododecane-1,4,7-triacetato(4-)-.kappa.N1,.kappa.N4,.kappa.N7,.kappa.N10,.kappa.O1,.kappa.O4,.kappa.O7}-, sodium (9CI) (CA INDEX NAME)

L24 ANSWER 15 OF 71 USPATFULL (Continued)

PAGE 1-A

PAGE 1-B

251084-39-6 USPATFULL Gadolinate(1-)-1530d, [10-[2-[4-[4-[(4-[(4-mino-1,4-dihydro-4-oxo-6-pteridinyl) methyl] amino] benzoyl]amino]-4-carboxy-1-oxobutyl]amino]phenyl]amino]-2-(oxo-.kappa.0)ethyl]-1,4,7,10-

tetraazacyclododecane-1,4,7-triacetato(4-)-.kappa.N1,.kappa.N4,.kappa.N7,
,kappa.N10,.kappa.01,.kappa.04,.kappa.07]-, sodium (9CI) (CA INDEX NAME)

L24 ANSWER 15 OF 71 USPATFULL (Continued)

PAGE 1-A

PAGE 1-B

251084-42-1 USPATFULL Gadolinate(1-)-153Gd, [10-[2-[[4-[[2-[4-[(2-amino-1,4-dihydro-4-oxo-6-pteridinyl) methyl] amino] benzoyl) amino]-4-carboxy-1-oxobutyl] amino] phenyl] amino]-2-{oxo-.kappa.0} ethyl]-1,4,7,10-

tetraazacyclododecane-1,4,7-triacetato(4-)-.kappa.N1,.kappa.N4,.kappa.N7
,.kappa.N10,.kappa.O1,.kappa.O4,.kappa.O7]-, sodium (9CI) (CA INDEX NAME)

PAGE 1-A

PAGE 1-B

L24 ANSWER 15 OF 71 USPATFULL (Continued)

L24 ANSWER 15 OF 71 USPATFULL (Continued)

PAGE 1-A

PAGE 1-B

RN 251084-44-3 USPATFULL
CN Gadolinium, [.mu.-[{10,10'-[{2-{[4-{[(2-amino-1,4-dihydro-4-oxo-6-pteridinyl}methyl]amino]benzoyl]amino]-1,5-dioxo-1,5-pentanediyl]bis(mino-4,1-phenyleneimino[2-(oxo-kappa.0)-2,1-ethanediyl]]bis{1,4,7,10-tetraazacyclododecane-1,4,7-triacetato-phenyleneiminols-(oxo-kappa.0)-2,1-ethanediyl]}

.kappa.N1,.kappa.N4,.kappa.N7,.kappa.N10,.kappa.O1,.kappa.O4,.kappa.O7]]
(6-)]]di- (9CI) (CA INDEX NAME)

L24 ANSWER 15 OF 71 USPATFULL (Continued)

RN 251084-45-4 USPATFULL
CN Gadolinium-153Gd, [.mu.-[{10,10'-[{2-[{4-{[{2-amino-1,4-dihydro-4-oxo-6-pteridiny}|methyl|amino}}benzoyl|amino]-1,5-dioxo-1,5-pentanediyl]bis[imino-4,1-phenyleneimino[2-(oxo-.kappa.0)-2,1-ethanediyl]|bis[i,4,7,10-tetraezacyclododecane-1,4,7-triacetato-.kappa.N1,.kappa.N4,.kappa.N7,.kappa.N10,.kappa.O1,.kappa.O4,.kappa.O7]]
(6-)]di-(9CI) (CA INDEX NAME)

H₂N N O

L24 ANSWER 15 OF 71 USPATFULL (Continued)

PAGE 1-A

PAGE 1-B

Î

L24 ANSWER 15 OF 71 USPATPULL (Continued) L24 ANSWER 15 OF 71 USPATFULL (Continued)

251084-52-3 USPATFULL
Technetate(1-)-99Tc, {(25)-2-{(4-{((2-amino-1,4-dihydro-4-oxo-6-pteridinyl)methyl]meino}benzoyl}amino}-5,17-bis(hydroxyimino-,kappa.N)-10,10,16,16-tetramethyl-5-oxo-14-oxa-6,11,15-triazaoctadecanoato(4-)}-,hydrogen, (SP-5-15)- (9CI) (CA INDEX NAME)

L24 ANSWER 15 OF 71 USPATFULL (Continued)

PAGE 1-A

PAGE 1-B

Absolute stereochemistry.

251084-60-3 USPATFULL 1,4,7-triacetic acid, 10-[2-{[4-[{(2S)-2-

[[4-[[(2-amino-1,4-dihydro-4-oxo-6-pteridinyl)methyl]amino]benzoyl]amino

}-5-(1,1-dimethylethoxy)-1,5-dioxopentyl]amino]phenyl]amino]-2-oxoethyl}, tris(1,1-dimethylethyl) ester (9CI) (CA INDEX NAME)

IT 251084-56-7P 251084-60-3P 251084-64-7P 251084-7P 251084-7P 251084-7P 251084-7P 251084-80-7P (reactant for prepn. of metal complexes for use in diagnostic and therapeutic applications)
RN 251084-56-7 USPATPULL
CN 1,4,7,10-Tetraszacyclododecane-1,4,7-triacetic acid, 10-[2-[[4-[[45]-4-

[[4-[[(2-amino-1,4-dihydro-4-oxo-6-pteridinyl]methyl]amino]benzoyl]amino

]-5-(1,1-dimethylethoxy)-1,5-dioxopentyl]amino]phenyl]amino]-2-oxoethyl]-

L24 ANSWER 15 OF 71 USPATFULL (Continued) L24 ANSWER 15 OF 71 USPATFULL (Continued)

PAGE 1-A

PAGE 1-B

PAGE 2-B

251084-64-7 USPATFULL

1,4,7,10-Tetraszacyclododecane-1,4,7-triacetic acid, 10,10'-[[(2S)-2-[[4-[[(2-amino-1,4-dihydro-4-oxo-6-pteridinyl]methyl]amino]benzoyl]amino]1,5-dioxo-1,5-pentanediyl]bis|imino-4,1-phenyleneimino[2-oxo-2,1-ethanediyl]]bis-, hexakis(1,1-dimethylethyl) ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L24 ANSWER 15 OF 71 USPATFULL (Continued)

RN 251084-76-1 USPATFULL
CN 5-0Xa-4.8,13-triazaoctadecan-18-oic acid,
15-[[4-[[2-amino-1,4-dihydro-40X0-6-pteridinyl]methyl]amino]benzoyl]amino]-2,10-bis(hydroxyimino)3,3,9-tetramethyl-14-oxo-, 1,1-dimethylethyl ester, (155)- (9CI) (CA

Absolute stereochemistry.
Double bond geometry unknown

RN 251084-80-7 USPATFULL
CN 5-0xa-4,8,13-triazaoctadecan-18-oic acid,
17-[(12-amino-1,4-dihydro-4oxo-6-pteridinyl)methyl]amino]benzoyl]amino]-2,10-bis(hydroxyimino)3,3,9,9-tetramethyl-14-oxo-, 1,1-dimethylethyl ester, (178)- (9CI) (CA

PAGE 1-A

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L24 ANSWER 15 OF 71 USPATFULL INDEX NAME) (Continued)

Absolute stereochemistry.
Double bond geometry unknown.

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PAGE 1-B

L24 ANSMER 16 OF 71 USPATFULL
ACCESSION NUMBER: 2001:208679 USPATFULL
TITLE: Nucleic acids encoding mutant human carboxypeptidase A

Nucleic scide encoding strain label to compare enzymes
Smith, Gary Keith, Raleigh, NC, United States
Slumenkopf, Todd Andrew, Old Lyme, CT, United States
Glavo Mellcome, Inc., Research Triangle Park, NC,
United States (U.S. corporation)

PATENT ASSIGNEE (S) :

NUMBER KIND DATE

US 6319702 B1 20011120
US 1999-395936 19990914 (9)
Continuation of Ser. No. US 640906, now patented, Pat.
No. US 6140100 PATENT INFORMATION: APPLICATION INFO.: RELATED APPLN. INFO.:

GB 1993-23429 1993111 Utility GRANTED Achier-PRIORITY INFORMATION: DOCUMENT TYPE: FILE SEGMENT: PRIMARY EXAMINER: 19931112

Achutamurthy, Ponnathapu Moore, William W. Bennett, Virginia C.

PRIMARY EAMINER: Achutamurthy, Ponnathapu
ASSISTANT EXMAINER: Moore, William W.
Bennett, Virginia C.
NUMBER OF CLAIMS: 30
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 7 Drawing Pigure(a); 5 Drawing Page(a)

CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB The present invention relates to nucleic acid molecules encoding mutant human carboxypeptidase A enzymes, and encoding conjugates of targeting molecules and mutant human carboxypeptidase A enzymes. The invention further relates to vectors and cell lines containing such nucleic acid molecules.

IT 167549-87-39 167559-96-4P 167550-61-0P
167550-81-4P 167550-65-1P 167550-61-0P
167550-81-4P 167550-68-P 167550-98-3P
167551-08-8P
(improvement of antibody-directed enzyme prodrug therapy (ADEPT))

167531-08-8P
(improvement of antibody-directed enzyme prodrug therapy (ADEPT))
RN 167549-87-3 USPATPULL
CN L-Phenylalanine,
N-[4-[[(2,4-diamino-6-pteridinyl)methyl]methylamino|benzo
yl]-L-.alpha.-glutamyl-2-cyclopentyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L24 ANSWER 16 OF 71 USPATFULL (Continued)

PAGE 1-B

_Bu-t

RN 167550-27-8 USPATPULL
CN L-Phenylalanine,
N-[4-{[(2,-d-diamino-6-pteridiny1)methyl]methylamino|benzo
y1|-L-.alpha.-glutamy1-3-cyclobuty1- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A

PAGE 1-B

RN 167550-54-1 USPATFULL
CN L-Phenylalanine,
N-{N-{N-{4-{(2,4-diamino-6-pteridinyl)methylamino|be}
nzoyl}-L-.alpha.-glutamyl}-3-(trimethylailyl)- (9CI) (CA INDEX NAME)

L24 ANSWER 16 OF 71 USPATFULL (Continued)

RN 167549-96-4 USPATPULL
CN L-Phenylalanine,
N-{4-{(2,4-diamino-6-pteridinyl)methyl]methylamino|benzo
yl}-L-.alpha.-glutamyl-3-cyclopentyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A

PAGE 1-B

RN 167550-14-3 USPATFULL
CN L-Phenylalanine,
N-[4-[{{2,-4-diamino-6-pteridinyl)methyl]methylamino|benzo
yl]-L-.alpha.-glutamyl-3-(1,1-dimethylethyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L24 ANSWER 16 OF 71 USPATFULL

Absolute stereochemistry.

PAGE 1-A

PAGE 1-B

_SiMe3

RN 167550-61-0 USPATFULL
CN L-Tyrosine,
N-[4-[[(2.4-diamino-6-pteridiny1)methyl]methylamino]benzoy1]-Lalpha.-glutamy1-3-cyclopenty1- (9CI) (CA INDEX NAME)

PAGE 1-A

L24 ANSWER 16 OF 71 USPATFULL (Continued)

PAGE 1-B

RN 167550-81-4 USFATFULL
CN L-Tyrosine,
N-{4-{{(2.4-diamino-6-pteridiny1)methyllmethylamino|benzoy1}-L.alpha.-glutamy1-2-cyclopenty1- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A

PAGE 1-B

RN 167550-86-9 USPATFULL
CN L-Tyrosine,
N-{4-{[(2,4-diamino-6-pteridinyl)methyl]methylamino]benzoyl}-L-

L24 ANSWER 16 OF 71 USPATFULL (Continued)

PAGE 1-B

RN 167551-08-8 USPATFULL
CN L-Tyrosine,
N-[4-{{(2.4-diamino-6-pteridinyl)methyl)methylamino|benzoyl]-L.alpha.-glutamyl-3-(1,1-dimethylethyl)- (9CI) (CA INDEX NAME)

PAGE 1-A

PAGE 1-B

IT 71074-48-1P 118355-51-4P 167549-40-8P
167549-42-0P 167549-49-7P 167549-50-0P
167549-43-4P 167549-57-7P 167549-6-0P
167549-67-9P 167549-75-9P 167549-76-0P
167549-67-9P 167549-75-9P 167550-62-P
167550-06-3P 167550-12-2P 167550-62-PP
167550-06-3P 167550-53-0P 167550-69-PP
167550-71-2P 167550-73-2P 167550-03P
167550-71-2P 167550-73-2P 167550-07-PP
167550-83-8P 167550-97-2P 167551-07-7P
RN 71074-48-1 USPATPULL
CN L-Aspartic acid,
N-[4-[(2,4-diamino-6-pteridinyl)methyl]methylamino|benzo

L24 ANSWER 16 OF 71 USPATFULL (Continued)
.alpha.-glutamyl-3,5-diiodo- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-B

RN 167550-98-3 USPATFULL
CN L-Glutamic acid,
N-{4-{((2,4-diamino-6-pteridinyl)methyl]methylamino}benzo
yll,,1-{1-carboxy-2-(3-cyclopentyl-4-hydroxyphenyl)ethyl] ester, (5)(9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A

L24 ANSWER 16 OF 71 USPATFULL (Continued) yl]-L-.alpha.-glutamyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 118355-51-4 USPATFULL
CN L-Aspartic acid,
N-[N-[4-[(2,4-diamino-6-pteridinyl)methyl]methylamino]be
novell-1-alpha.-glutamyl]-, tris(1,1-dimethylethyl) ester (9CI) (CA
INDEX NAME)

Absolute stereochemistry.

RN 167549-40-8 USPATFULL,
CN L-Alanine,
N-{N-{4-{[(2,4-diamino-6-pteridinyl}methyl]methylamino|benzoyl]L-.alpha.-glutamyl]-3-{1-naphthalenyl}-, diethyl ester (9CI) (CA INDEX NAME)

L24 ANSWER 16 OF 71 USPATFULL (Continued)

167549-42-0 USPATFULL

RN 167549-42-0 USPATFULL
CN L-Alanine,
N-[4-[{[(2,4-diamino-6-pteridinyl)methyllmethylamino|benzoyl]-L.alpha.-glutamyl-3-(1-naphthalenyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L24 ANSWER 16 OF 71 USPATFULL (Continued)

RN 167549-57-7 USPATFULL
CN L-Aspartic acid,
N-{N-{\(\frac{1}{1}\)(2,4-\)diamino-6-pteridinyl}\)methyl}methylamino]be
nzoyl]-L-.alpha.-glutamyl]-, triethyl ester (9CI) (CA INDEX NAME)

RN 167549-66-8 USPATPULL
CN L-Tyrosine,
N-[N-[4-[(4,4-diamino-6-pteridinyl)methyl]methylamino]benzoyl
1-L-.alpha.-glutamyl]-3-[(1,1-dimethylethoxy)carbonyl]-,
bis(1,1-dimethylethyl) ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L24 ANSWER 16 OF 71 USPATFULL (Continued)

PAGE 1-B

-- OMe

Absolute stereochemistry.

RN 167549-54-4 USPATFULL
CN L-Aspartic acid,
N-[N-{4-{(2,4-diamino-6-pteridinyl)methyl}methylamino|be
nzoyl]-L-.alpha.-glutamyl]-, trimethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L24 ANSWER 16 OF 71 USPATFULL

PAGE 1-B

RN 167549-67-9 USPATFULL
CN L-Tyrosine,
N-[4-[{[2,4-diamino-6-pteridiny1}methyl]methylamino|benzoyl]-Lalpha.-glutamyl-3-carboxy- (9C1) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A

L24 ANSWER 16 OF 71 USPATFULL (Continued)

PAGE 1-B

RN 167549-75-9 USPATFULL
CN L-Phenylalanine,
N-[N-[4-[[(2,4-diamino-6-pteridinyl]methyl]methylamino]be
novyl]-L-.alpha--glutamyl]-3-(methoxycarbonyl)-, bis(1,1-dimethylethyl)
ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-B

RN 167549-76-0 USPATFULL
CN L-Phenylalanine,
N-[4-[1(2,4-diamino-6-pteridiny1)methyl]methylamino|benzo
yl]-L-.alpha.-glutamyl-3-carboxy- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L24 ANSWER 16 OF 71 USPATFULL (Continued)

PAGE 1-B

$$\bigcirc$$

167550-05-2 USPATFULL
L-Phenylalanine, 2-cyclohexyl-N-[N-[4-[[(2,4-diamino-6-ptertdinyl)methyl]methylamino]benzoyl]-L-.alpha.-glutamyl]-,
bis(1,1-dimethylethyl) ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 167550-06-3 USPATFULL
CN L-Phenylalanine.
N-[4-[{(2,4-diamino-6-pteridiny1)methyl]methylamino|benzo
yl}-L-.alpha.-glutamyl-2-cyclohexyl- (9CI) (CA INDEX NAME)

L24 ANSWER 16 OF 71 USPATFULL (Continued)

PAGE 1-B

_ CO2H

167549-86-2 USPATFULL
L-Phenylalanine, 2-cyclopentyl-N-[N-[4-[[{2,4-diamino-6-pteridinyl) methyl] methylamino]benzoyl]-L-.alpha.-glutamyl]-, bis(1,1-dimethylethyl) ester (9CI) (CA INDEX NAME)

167549-95-3 USPATFULL L-Phenylalanine, 3-cyclopentyl-N-[N-[4-[[(2,4-diamino-6-pteridinyl)methyl]methylamino]benzoyl]-L-.alpha.-glutamyl]-, bia(1,-dimethylethyl) ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L24 ANSWER 16 OF 71 USPATFULL (Continued)

RN 167550-13-2 USPATFULL
CN L-Phenylalanine,
N-[N-[4-[[(2,4-diamino-6-pteridinyl)methyl]methylamino]be
nzoyl-l--alpha.-glutamyl]-3-(1,1-dimethylethyl)-, bis(1,1-dimethylethyl) ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-B

_Bu-t

167550-26-7 USPATFULL L-Phenylalanine, 3-cyclobutyl-N-[N-[4-[[(2,4-diamino-6-pteridinyl]methyl]methylamino]benzoyl]-L-alpha.-glutamyl]-, bis(1,1-dimethylethyl) ester (9CI) (CA INDEX NAME)

L24 ANSWER 16 OF 71 USPATFULL (Continued)

PAGE 1-B

Absolute stereochemistry.

RN 167550-53-0 USPATFULL
CN L-Phenylalanine,
N-[N-[4-[[(2,4-diamino-6-pteridinyl)methyl]methylamino]be

L24 ANSWER 16 OF 71 USPATFULL (Continued)

PAGE 1-B

RN 167550-71-2 USPATFULL
CN L-Phenylalanine,
N-{N-(4-[((2,4-diamino-6-pteridinyl)methyl]methylamino]be
nzoyl]-L-.alpha.-glutamyl]-3-(1-ethylpropyl)-, bis(1,1-dimethylethyl)
ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A

PAGE 1-B

_CHEt 2

RN 167550-72-3 USPATFULL
CN L-Phenylelanine,
N-[N-[4-[([2,4-diamino-6-pteridinyl)methyl)methylamino]be
nzoyl]-L-.alpha.-glutamyl]-3-(1-ethylpropyl)- [9CI] (CA INDEX NAME)

Absolute stereochemistry.

L24 ANSMER 16 OF 71 USPATFULL (Continued)
nzoyl]-L-alpha.-glutamyl]-3-(trimethyleilyl)-, bis(1,1-dimethylethyl)
ester (9C1) (OA INDEX NAME)

Absolute stereochemistry.

PAGE 1-B

_SiMe3

167550-60-9 USPATFULL
L-Tyrosine, 3-cyclopentyl-N-[N-[4-[{(2,4-diamino-6-pteridinyl)methyl]methylamino|benzoyl]-L-.alpha.-glutamyl}-,
bis(1,1-dimethylethyl) ester (9Cl) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A

L24 ANSWER 16 OF 71 USPATFULL (Continued)

PAGE 1-A

PAGE 1-B

_CHEt2

167550-80-3 USPATFULL
L-Tyrosine, 2-cyclopentyl-N-[N-[4-[[(2,4-diamino-6pteridinyl]methyl]methylamino]benzoyl]-L-.alpha.-glutamyl]-, diethyl
ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A

L24 ANSWER 16 OF 71 USPATFULL (Continued)

PAGE 1-B

RN 167550-85-8 USPATFULL
CN L-Tyrosine,
-(N-{4-[1(3,4-diamino-6-pteridinyl)methyl]methylamino]benzoyl
-[1-.alpha.-glutamyl]-3,5-diiodo-, bis(1,1-dimethylethyl) ester (9C1)
(CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-B

L24 ANSWER 16 OF 71 USPATFULL (Continued)

PAGE 1-B

IT 59-05-2DP, Methotrexate, derivs.

{prodrugs; improvement of antibody-directed enzyme prodrug therapy
(ADEPT))
RN 59-05-2 USPATFULL
CN L-Glutamic acid,
N-[4-[(2, 4-diamino-6-pteridinyl)methyl]methylamino]benzo
yl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L24 ANSWER 16 OF 71 USPATFULL (Continued)

RN 167550-97-2 USPATPULL
CN L-Glutamic acid,
N-{4-{{(1,4-diamino-6-pteridinyl)methyl}methylamino|benzo
yl|-,1-{1-{{(13-cyclopentyl-4-hydroxyphenyl)methyl}-2-(1,1dimethylethoxy)-2-oxoethyl} 5-{1,1-dimethylethyl} ester, {S}- (9CI)

INDEX NAME)

Absolute stereochemistry.

PAGE 1-B

L24 ANSWER 17 OF 71 ACCESSION NUMBER: TITLE: USPATFULL

INVENTOR (S) :

SPATFULL
2001:173161 USPATFULL
Multi-vitamin and mineral supplement
Cooper, Kenneth H., Dallas, TX, United States
Jislal, Ishwarlel, Dallas, TX, United States
Grundy, Scott Montgomery, Dallas, TX, United States
Willett, Walter Churchill, Cambridge, MA, United

States

Selhub, Jacob, Brookline, MA, United States Cooper Concepts, Inc., Dallas, TX, United States (U.S. corporation) PATENT ASSIGNEE (S):

NUMBER KIND DATE US 6299896 US 2000-548515 ULILIEY GRANTED Page, Thurman K. Pulliam, Amy E Arter & Hadden LLP 42 20011009 20000413 (9) PATENT INFORMATION:

PATENT INFORMATION: US 629986 B1 20011009

APPLICATION INFO.: US 2000-548515 20000413 (9)

DOCUMENT TYPE: Utility

PRIMARY EXAMINER: GRANTED

PRIMARY EXAMINER: Page, Thurman K.

Pulliam, Amy E

LEGAL REPRESENTATIVE: Arter & Hadden LLP

NUMBER OF CLAIMS: 42

EXEMPLARY CLAIM: 1262

CAS INDEXING 13 AVAILABLE FOR THIS PATENT.

AB This invention is directed to a multi-vitamin and mineral supplement tailored to men and post-menopausal women, pre-menopausal women, and athletes which supplies the right amount of the right micronutrients at the right time to assure adequate intake of micronutrients needed for disease prevention and protection segimst nutritional losses and deficiencies due to lifeatyle factors and common inadequate dietary patterns. The multi-vitamin and mineral supplement is comprised of vitamin A, vitamin C, vitamin D, vitamin B2, vitamin B1, vitamin B1, vitamin B1, vitamin B1, vitamin B2, vitamin B2, vitamin B2, vitamin B3, vitamin B4, vitamin B3, vitamin B4, vitamin B3, vitamin B4, vitam

L24 ANSMER 18 OF 71
ACCESSION NUMBER: 2001:158491 USPATFULL
TITLE: Folic acid derivatives
INVENTOR(S): Fuchs, Philip L., West Lafayette, IN, United States
Lantip, Douglas A., Lafayette, IN, United States
PATENT ASSIGNEE(S): Purdue Research Foundation, United States (U.S.

corporation)

NUMBER KIND DATE US 6291673 WO 9920626 US 2000-529682 WO 1998-US21914 PATENT INFORMATION: 20010918 B1 19990429 20000417 19981016 APPLICATION INFO.: (9)

20000417 PCT 371 date PCT 102(e) date 20000417

NUMBER DATE

19971017 (60)

PRIORITY INFORMATION: DOCUMENT TYPE: FILE SEGMENT: PRIMARY EXAMINER: LEGAL REPRESENTATIVE: NUMBER OF CLAIMS: EXEMPLARY CLAIM: NUMBER OF DRAWINGS: LIER COUNTY US 1997-62009P Utility GRANTED Ford, John M. Barnes & Thornburg

9 Drawing Pigure(s); 9 Drawing Page(s) LINE COUNT:

NUMBER OF DRAWINGS: 9 Drawing Pigure(s); 9 Drawing Page(s)

LINE COUNT: 1065

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Novel folic acid derivatives and their use in preparation of .gamma.-esters of folic acid via a pteroyl azide intermediate are described. Folic acid .gamma.-esters are useful intermediates in the synthesis of folic acid .gamma.esters are useful intermediates in the expensers in vitro and in vivo.

IT 185130-29-40P, complexes with indium-111

(pteroyl azide intermediates in prepn. of folic acid-drug conjugates)

RN 185130-29-4 USPATFULL

CN 3,6,9,12,15-Pentaszaeicosanedioic acid, 19-{{4-[{2-amino-1,4-dihydro-oxo-6-pteridiny|| methyl|| amino|| benzoyl|| amino|-1,6,9-tris(carboxymethyl)-11,16-dioxo-, (195)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L24 ANSWER 18 OF 71 USPATPULL (Continued)

197152-02-6P (pteroyl azide intermediates in prepn. of folic acid-drug conjugates)

RN 59-05-2 USPATPULL
CN L-Glutamic acid,
N-[4-[[2,4-diamino-6-pteridinyl]methyl]methylamino]benzo
yl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

59-30-3 USPATFULL L-Glutamic acid, N-[4-[((2-amino-1,4-dihydro-4-oxo-6-pteridinyl)methyl]amino|benzoyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

197151-85-2 USPATFULL
L-Glutamine, N2-[4-[[(2-amino-1,4-dihydro-4-oxo-6-pteridinyl)methyl]amino]benzoyl]-N-(2-aminoethyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

PAGE 1-A H S S

L24 ANSWER 18 OF 71 USPATFULL (Continued)

PAGE 1-A

PAGE 1-B

IT 7532-09-4 (ptercyl azide intermediates in prepn. of folic acid-drug conjugates)
RN 7532-09-4 USPATFULL
CN L-Glutamic acid.
N-[4-[[(2,4-diamino-6-pteridinyl)methyl]methylamino|benzo
yl]-, monosodium salt (9CI) (CA INDEX NAME)

Absolute stereochemistry.

IT 59-05-2P, MTX 59-30-3P, Polic acid, preparation 197151-85-2P 197151-86-3P 197151-97-6P

L24 ANSWER 18 OF 71 USPATFULL (Continued)

PAGE 1-B

197151-86-3 USPATFULL
Glutamic acid, N-[4-[[(2-amino-1,4-dihydro-4-oxo-6pteridinyl)methyl]amino]benzoyl]-, 5-methyl ester (9CI) (CA INDEX

197151-97-6 USPATFULL L-Glutamic acid, N-[4-[([2-amino-1,4-dihydro-4-oxo-6-pteridiny])methyl]amino|benzoyl]-, 5-methyl eater, compd. with N,N,N',N'-tetramethylguanidine (1:1) (9CI) (CA INDEX NAME)

CRN 53464-60-1 CMP C20 H21 N7 O6 CDES 5:L

Absolute stereochemistry.

2

L24 ANSWER 18 OF 71 USPATFULL (Continued)

197152-02-6 USPATFULL L-Glutamic acid, N-[4-{[(2-amino-1,4-dihydro-4-oxo-6-pteridinyl)methyl|amino|benzoyl|-, 1-(3-methyl-2-butenyl) ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

IT 53464-60-1P 65165-91-5P 65165-92-6P
185130-19-4P 197151-90-9P 197151-91-0P
197152-00-4P
(pteroyl azide intermediates in prepn. of folic acid-drug conjugates)
RN 53464-60-1 USPATFULL
CN L-Glutamic acid, N-[4-{[(2-amino-1,4-dihydro-4-oxo-6-pteridinyl)methyl]amino}benzoyl}-, 5-methyl ester (9CI) (CA INDEX NAME) NAME)

Absolute stereochemistry.

65165-91-5 USPATPULL
D-Glutamic acid, N-[4-[[(2-amino-1,4-dihydro-4-oxo-6-pteridinyl)methyl]amino]benzoyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L24 ANSWER 18 OF 71 USPATFULL (Continued)

197151-90-9 USPATFULL Glutamic acid, N-(4-[[(2-amino-1,4-dihydro-4-oxo-6-pteridinyl)methyl]amino)benzoyl]-, 5-hydrazide (9CI) (CA INDEX NAME)

PAGE 1-B

197151-91-0 USPATFULL Glutamine, N2-[4-{{(2-amino-1,4-dihydro-4-oxo-6-pteridinyl)methyl]amino|benzoyl}- (9CI) (CA INDEX NAME)

197152-00-4 USPATFULL
L-Glutemic acid, N-[4-[([2-amino-1,4-dihydro-4-oxo-6-pteridiny])methyl]amino]benzoyl]-, 5-(phenylmethyl) ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L24 ANSWER 18 OF 71 USPATFULL (Continued)

65165-92-6 USPATFULL Glutamic acid, N-{4-{{(2-amino-1,4-dihydro-4-oxo-6-pteridinyl)methyl}amino|benzoyl}- (9CI) (CA INDEX NAME)

185130-29-4 USPATFULL
3,6,9,12,15-Pentaszaeicosanedioic acid, 19-[{4-{[(2-amino-1,4-dihydro-4-oxo-6-pteridinyl]machyl]amino]benzoyl]amino]-3,6,9-tris(carboxymethyl)-11,16-dioxo-, (195)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A

L24 ANSWER 18 OF 71 USPATFULL (Continued)

L24 ANSWER 19 OF 71 USPATFULL
ACCESSION NUMBER: 2001:11526 USPATFULL
TITLE: TARGETED Ultrasound contrast agents
Klaveness, Jo, Oslo, Norway
Romywed, P.ang. 1, Oslo, Norway
L.o slashed.vhaug, Dagfinn, Oslo, Norway
PATENT ASSIGNEE(S): Nycomed Imaging AS, Oslo, Norway (non-U.S.

NUMBER KIND DATE US 6264917 US 1997-958993 20010724 19971028 (8) PATENT INFORMATION: APPLICATION INFO.: NUMBER DATE

NUMBER

GB 1996-22366
GB 1996-22367
GB 1997-699
GB 1997-8265
GB 1997-1842
GB 1997-1846
US 1997-49264P
ULILITY
GRANTED
Hartley, Michael G.
Bacon & Thomas
17 19961028 19961028 19961028 19970115 19970424 19970606 19970607 (60) PRIORITY INFORMATION:

US 1997-49264P 19970607 (60)
US 1997-49266P 19970607 (60)
US 1997-49266P 19970607 (60)

DOCUMENT TYPE: Utility
FILE SEQUENT: GRANTED
PRIMARY EXAMINER: Hartley, Michael G.
LEGAL REPRESENTATIVE: Bacon & Thomas

LUGAL REPRESENTATIVE: Hartley, Michael G.

EXEMPLARY (LAIM: 1

RUMBER OP DRANINGS: 2 Drawing Pigure(s); 2 Drawing Page(s)

LINE COUNT: 5477

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Targetable diagnostic and/or therapeutically active agents, e.g.
ultrasound contrast agents, having reporters comprising gas-filled
microbubles stablised by monolayers of film-forming surfactants, the
reporter being coupled or linked to at least one vector:

IT 195618-80-59 207287-24-3P 350236-58-59

(prepn. of diagnostic/therapeutic agents having phospholipid-based
gas-filled microbubbles coupled to one or more vectors)

RN 195518-80-5 USPATFULL

CN Poly(Gxy-1, 2-tehanediy1),
.alpha.-[2-[(1(2-tehanediy1)] amino] benzoy1]amino] -4-carboxy-1
Oxobuty1]amino] ethy1]-.omega.-[(12-hydroxy-12-oxido-4,7,18-trioxo-15-[(1-

oxobutyl]amino]ethyl]-.omega.-{{12-hydroxy-12-oxido-4,7,18-trioxo-15-{{1-oxooctadecyl}oxyl-11,13,17-trioxa-3,8-diaza-12-phosphapentatriacont-1-yl}oxyl- (9CI) (CA INDEX NAME)

L24 ANSWER 19 OF 71 USPATFULL (Continued)

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L24 ANSWER 19 OF 71 USPATFULL (Continued)

PAGE 1-A

PAGE 1-B

PAGE 1-C

RN 207287-24-9 USPATPULL
CN L-Cysteine,
N2,N6-bis[N-[4-[[(2,4-diamino-6-pteridinyl)methyl]methylamino]
benzoyl]-L-alpha.-glutamyl-L-alpha.-glutamyl-beta.-alanyl]-L-lysyl(9CI) (CA INDEX NAME)

Absolute stereochemistry.

L24 ANSWER 19 OF 71 USPATFULL (Continued)

PAGE 1-C

350256-58-5 USPATFULL L-Lysinamide, N2,N6-bis(1-oxohexadecyl)-L-lysyl-L-lysyl-L-lysyl-L-lysyl-N6-[N-[4-[(2,4-diamino-6-pteridinyl)]methyl]methylamino]benzoyl]-L-.alpha.-glutamyl]- (9CI) (CA INDEX NAME)

PAGE 2-A

H₂N

350256-60-9 USPATPULL L-Lysinamide, N2,N6-bis(1-oxohexadecyl)-L-lysyl-L-lysyl-L-lysyl-N6-[N-[4-[(2,4-diamino-6-pteridinyl)methyl]methylamino]benzoyl]-L-.gamma.-glutamyl]- (9C1) (CA INDEX NAME)

Absolute stereochemistry.

, (CH₂) 4 _ NH₂

IT 59-05-2, Methotrexate {prepn. of diagnostic/therapeutic agents having phospholipid-based gas-filled microbubbles coupled to one or more vectors}
RN 59-05-2 USPATFULL
CN L-Glutamic acid,
N-[4-[[(2,-d-diamino-6-pteridiny1)methy1]methy1amino]benzo
y1]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L24 ANSWER 20 OF 71 USPATFULL
ACCESSION NUMBER:
TITLE:
Diagnostic/therapeutic agents having microbubbles coupled to one or more vectors
Klaveness, Jo. Oslo, Norway
Rongved, P.ang.l, Oslo, Norway
H.O slashed.gset, Anders, Oslo, Norway
N.ae butted.vestad, Anne, Oslo, Norway
Hellebust, Halldis, Oslo, Norway
Cuthbertson, Alan, Oslo, Norway
L.O slashed.yset, Oslo, Norway
Cuthbertson, Alan, Oslo, Norway
L. slashed.yset, Oslo, Norway
Solbakken, Magne, Oslo, Norway
Nycomed Imaging AS, Oslo, Norway (non-U.S.

NUMBER KIND DATE

US 6261537 B1 20010717
US 1997-960054 19971029 (8)
Continuation-in-part of Ser. No. US 1997-958993, filed on 28 Oct 1997 PATENT INFORMATION: APPLICATION INFO.: RELATED APPLN. INFO.:

NUMBER DATE

GB 1996-22366 19961028
GB 1996-22367 19961028
GB 1997-622368 19961028
GB 1997-699 19970115
GB 1997-1842 19970606
GB 1997-11842 19970606
US 1997-49265P 19970607 (60)
US 1997-49265P 19970607 (60) NUMBER DATE PRIORITY INFORMATION:

US 1997-49265P 19970607 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: GRANTED
PRIMARY EXAMINER: Hartley, Michael G.
LEGAL REPRESENTATIVE: Bacon & Thomas, Fichter, Richard E.
NUMBER OF CLAIMS: 22
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 2 Drawing Figure(s); 2 Drawing Page(s)
LINE COUNT: 5614
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB Targetable diagnostic and/or therapeutically active agents, e.g.
ultrasound contrast agents, having reporters comprising gas-filled microbubbles stabilised by monolayers of film-forming surfactants, the reporter being coupled or linked to at least one vector.

IT 195618-80-59 207287-24-99 150256-58-59
350356-60-99
(prepn. of diagnostic/therapeutic agents having phospholipid-based gas-filled microbubbles coupled to one or more vectors)
RN 195618-80-5 USPATFULL
N POly(GXY-1,2-ethanediyl),
.alpha.-[2-[(1/25)-2-[(4-[(2-amino-1,4-dihydro-4-cxrboxy-1-

oxobutyl]amino]ethyl]-.omega.-[{12-hydroxy-12-oxido-4,7,18-trioxo-15-[{1-oxooctadecyl]oxy]-11,13,17-trioxa-3,8-diaza-12-phosphapentatriacont-1-yl]oxy]- (9CI) (CA INDEX NAME)

L24 ANSWER 20 OF 71 USPATFULL (Continued)

PAGE 1-A

PAGE 1-B

$$- \, \mathrm{CH_2-CH_2- } \frac{1}{ \ln } \, \mathrm{O-CH_2-CH_2- } \mathrm{CH_2-CH_2-CH_2- } \mathrm{C-NH-CH_2-CH_2- } \mathrm{CH_2-CH_2- } \mathrm{C-NH-CH_2- } \mathrm{C-NH$$

PAGE 1-C

RN 207287-24-9 USPATPULL
CN L-Cysteine,
N2,N6-bis(N-(4-{{(2,4-diamino-6-pteridinyl)methyl]methylamino}}
benzoyl]-L-.alpha.-glutamyl-L-.alpha.-glutamyl-.beta.-alanyl]-L-lysyl(9CI) (CA INDEX NAME)

L24 ANSWER 20 OF 71 USPATFULL (Continued)

L24 ANSWER 20 OF 71 USPATFULL (Continued)

PAGE 1-A

PAGE 1-B

350256-58-5 USPATFULL L-Lysinamide, N2,N6-bis(1-oxohexadecyl)-L-lysyl-L-lysyl-L-lysyl-N6-{N-{4-{(12,4-diamino-6-pteridinyl)methyl)methylamino|benzoyl}-L-.alpha.glutamyl}- (9C1) (CA INDEX NAME)

Absolute stereochemistry.

L24 ANSWER 20 OF 71 USPATFULL (Continued)

350256-60-9 USPATFULL L-Lysinamide, N2,N6-bis(1-oxohexadecyl)-L-lysyl-L-lysyl-L-lysyl-L-lysyl-N6-{N-{4-[((2,4-diamino-6-pteridinyl)methyl]methylamino}benzoyl]-L-.gamma.-glutamyll-(SCI) (CA INDEX NAME)

Absolute stereochemistry.

L24 ANSWER 20 OF 71 USPATFULL (Continued)

PAGE 1-B

IT 59-05-2, Methotrexate

(prepn. of diagnostic/therapeutic agents having phospholipid-based gas-filled microbubbles coupled to one or more vectors)

RN 59-05-2 USPATFULL

CN L-Olutamic acid,

N-[4-[(12,-d-diamino-6-pteridinyl)methyl]methylamino]benzo

yl]- (9CI) (CA INDEX NAME)

L24 ANSWER 20 OF 71 USPATPULL (Continued)

L24 ANSWER 21 OF 71 USPATFULL (Continued)

PAGE 1-A

251084-40-9 USPATPULL 1,4,7,10-Tetraszacyclododecane-1,4,7-triscetic acid, 10-[2-{[4-[[(25)-2-

[[4-[[(2-amino-1,4-dihydro-4-oxo-6-pteridinyl)methyl]amino]benzoyl]amino]-4-carboxy-1-oxobutyl]amino]phenyl]amino]-2-oxoethyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L24 ANSWER 21 OF 71 USPATFULL ACCESSION NUMBER: 2001:593
TITLE: Ratal co

SPATFULL

1001:59359 USPATFULL

Ratal complexes derivatized with
folate for use in diagnostic and therapeutic
applications

Medeking, Paul W., Pennington, NJ, United States

Mager, Ruth E., Rockville, MD, United States

Arunachalam, Thangavel, Plainsboro, NJ, United States

Ramalingan, Kondareddiar, Dayton, NJ, United States

Linder, Karen E., Kingston, NJ, United States

Ranganathan, Ramachandran S., Princeton, NJ, United

States

Nunn, Adrian D., Lembertville, NJ, United States

Raju, Natarajan, Kendall Park, NJ, United States

Tweedle, Michael P., Princeton, NJ, United States

Bracco Research USA, Inc., Princeton, NJ, United INVENTOR(S):

PATENT ASSIGNEE(S): States

PATENT INFORMATION: APPLICATION INFO.: RELATED APPLN. INFO.:

US 6221334 B1 20010424
US 6221334 B1 20010424
US 2000-477072 20000103 (9)
Division of Ser. No. US 1998-80157, filed on 16 May
1998, now patented, Pat. No. US 6093382
Utility
Granted
Jones, Dameron L.
Balogh, Imre
35

[[4-[[(2-amino-1,4-dihydro-4-oxo-6-pteridinyl)methyl]amino]benzoyl]amino }-4-carboxy-1-oxobutyl]amino]phenyl]amino]-2-oxoethyl]- (9CI) {CA INDEX

Absolute stereochemistry.

L24 ANSWER 21 OF 71 USPATFULL (Continued)

251084-43-2 USPATFULL
1,4,7,10-Tetraazacyclododecane-1,4,7-triacetic acid, 10,10'-[[(2S)-2-[[4-[((2-amino-1,4-dihydro-4-oxo-6-pteridinyl)methyl]amino]benzoyl]amino]-1,5-dioxo-1,5-pentanediyl]bis [mino-4,1-phenyleneimino(2-oxo-2,1-ethanediyl)]bis- (9CI) (CA INDEX NAME)

L24 ANSWER 21 OF 71 USPATFULL (Continued)

PAGE 1-B

RN 251084-49-8 USPATFULL CN 5-0xa-4,8,13-triazaoctadecan-18-oic acid, 15-{[4-{[(2-amino-1,4-dihydro-4-

L24 ANSWER 21 OF 71 USPATFULL (Continued)

L24 ANSWER 21 OF 71 USPATPULL (Continued)

OXO-6-pteridinyl)methyllamino|benzoyllamino|-2,10-bis(hydroxyimino)3,3,9,9-tetramethyl-14-oxo-, (15S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.

PAGE 1-B

251084-50-1 USPATPULL
Technetate(1-)-99Tc, {(4S)-4-[{4-[{(2-amino-1,4-dihydro-4-oxo-6-pteridinyl)methyllamino|benzoyllamino|-9,17-bis(hydroxyimino-.kappa.N)-10,10,16,16-tetramethyl-5-oxo-14-oxa-6,11,15-triazaoctadecanoato(4-}}, hydrogen, (SP-5-15)- (9CI) (CA INDEX NAME)

L24 ANSWER 21 OF 71 USPATFULL (Continued) 3,3,9,9-tetramethyl-14-oxo-, (17S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.

PAGE 1-B

| T | 251084-38-5P | 251084-39-6P | 251084-41-0P | 251084-42-1P | 251084-42-3P | 251084-45-4P | 251084-52-3P | (prepn. for use in diagnostic and therapeutic applications) | RN | 251084-38-5 | USPATFULL | USPATF

tetraazacyclododecane-1,4,7-triacetato{4-}-.kappa.N1,.kappa.N4,.kappa.N7,.kappa.N10,.kappa.O1,.kappa.O4,.kappa.O7]-, sodium (9CI) (CA INDEX NAME)

L24 ANSWER 21 OF 71 USPATFULL (Continued)

PAGE 1-A

251084-39-6 USPATPULL Gadolinate(1-)-1530d, [10-{2-[4-[4-[4-[4-((2-amino-1,4-dihydro-4-oxo-6-pteridinyl)methyl]amino]benzoyl}amino]-4-carboxy-1-oxobutyl]amino]phenyl]amino]-2-(oxo-.kappa.0)ethyl]-1,4,7,10-

tetraazacyclododecane-1,4,7-triacetato(4-)-.kappa.N1,.kappa.N4,.kappa.N7,.kappa.N10,.kappa.O1,.kappa.O4,.kappa.O7]-, sodium (9CI) (CA INDEX NAME)

L24 ANSWER 21 OF 71 USPATFULL (Continued)

251084-41-0 USPATFULL
Gadolinate(1-), (10-[2-[[4-[[2-[[4-[[(2-amino-1,4-dihydro-4-oxo-6pteridiny) methyl] amino] benzoyl] amino] -4-carboxy-1oxobutyl] amino] phenyl] amino] -2-(oxo-.kappa.0) ethyl]-1,4,7,10-

tetraazacyclododecane-1,4,7-triacetato(4-)-.kappa.N1,.kappa.N4,.kappa.N7,.kappa.N10,.kappa.O1,.kappa.O4,.kappa.O7]-, sodium (9CI) (CA INDEX NAME)

L24 ANSWER 21 OF 71 USPATFULL

PAGE 1-B

251084-42-1 USPATFULL

Gadolinate(1-)-1530d, [10-[2-[[4-[[2-[[4-[[(2-amino-1,4-dihydro-4-oxo-6-pteridinyl)methyl]amino]benzoyl]amino]-4-carboxy-1oxobutyl]amino]phenyl]amino]-2-(oxo-.kappa.0]ethyl]-1,4,7,10-

tetraazacyclododecane-1,4,7-triacetato(4-)-.kappa.N1,.kappa.N4,.kappa.N7,
,.kappa.N10,.kappa.O1,.kappa.O4,.kappa.O7]-, godium (9CI) (CA INDEX NAME)

PAGE 1-B

251084-44-3 USPATFULL
Gadolinium, [.mu.-[[10,10'-[[2-[[4-[[(2-amino-1,4-dihydro-4-oxo-6-pteridiny]]methyl] lamino] benzoyl]amino]-1,5-dioxo-1,5-pentanediyl]bis[imino-4,1-phenyleneimino[2-(oxo-kapps.0)-2,1-ethanediyl]]bis[1,4,7,10-tetraazacyclododecane-1,4,7-triacetato-

.kappa.N1, .kappa.N4, .kappa.N7, .kappa.N10, .kappa.O1, .kappa.O4, .kappa.O7]]
(6-)]]di- (9CI) (CA INDEX NAME)

L24 ANSWER 21 OF 71 USPATFULL (Continued)

L24 ANSWER 21 OF 71 USPATFULL (Continued)

PAGE 1-A

PAGE 1-B

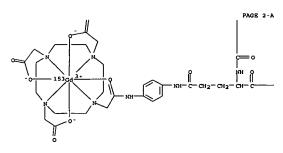
PAGE 1-A

PAGE 2-B

RN 251084-45-4 USPATFULL
CN Gadolinium-153Gd, [.mu.-[[10,10'-[[2-[[4-[[(2-amino-1,4-dihydro-4-oxo-6-pteridinyl]methyl] lamino] benzoyl] bmino] -1,5-dioxo-1,5-pentanediyl]]bis [imino-4,1-phenyleneimino[2-(oxo-.kappa.0)-2,1-ethanediyl]]]bis[1,4,7,10-tetraezacyclododecane-1,4,7-triacetato-

.kappa.N1,.kappa.N4,.kappa.N7,.kappa.N10,.kappa.O1,.kappa.O4,.kappa.O7)}
(6-)]]di- (9CI) (CA INDEX NAME)

L24 ANSWER 21 OF 71 USPATFULL (Continued)



RN 251084-52-3 USPATFULL
CN Technetate(1-)-99Tc, [(2S)-2-[[4-[[(2-amino-1,4-dihydro-4-oxo-6-pteridinyl)methyl]mmino]benzoyl]mmino]-9,17-bis(hydroxyimino-.kappa.N)-10,10,16,16-terramethyl-5-oxo-14-oxa-6,11,15-triazaoctadecanoato(4-)]-, hydrogen, (SP-5-15)-(9CI) (CA INDEX NAME)

L24 ANSWER 21 OF 71 USPATFULL (Continued) L24 ANSWER 21 OF 71 USPATFULL (Continued)

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IT 251084-56-7P 251084-60-3P 251084-64-7P 251084-7P 251084-78-1P 251084-80-7P (reactant for prepn. of metal complexes for use in diagnostic and therapeutic applications)
RN 251084-56-7 USPATPULL
CN 1,4,7,10-Tetraazacyclododecane-1,4,7-triacetic acid, 10-{2-[[4-{[(45)-4-67]

L24 ANSWER 21 OF 71 USPATFULL (Continued)

[[4-[[(2-amino-1,4-dihydro-4-oxo-6-pteridinyl]methyl]amino]benzoyl]amino

}-5-(1,1-dimethylethoxy)-1,5-dioxopenty1]amino]pheny1]amino]-2-oxoethy1], tris(1,1-dimethylethyl) ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

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PAGE 1-B

251084-60-3 USPATFULL 1,4,7,10-Tetraazacyclododecane-1,4,7-triacetic acid, 10-[2-[[4-[[(25)-2-

[[4-[((2-amino-1,4-dihydro-4-oxo-6-pteridinyl)methyl]amino]benzoyl]amino

}-5-(1,1-dimethylethoxy)-1,5-dioxopentyl]amino]phenyl]amino]-2-oxoethyl], tris(1,1-dimethylethyl) ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L24 ANSWER 21 OF 71 USPATFULL (Continued)

PAGE 1-B

251084-64-7 USPATFULL
1.4.7.10-Tetraszacyclododecane-1.4.7-triacetic acid, 10,10'-[[(28)-2-[{4-([(2-amino-1,4-dihydro-4-oxo-6-pteridinyl]methyl]aminolbenzoyl]amino]1.5-dioxo-1,5-pentanediyl]bis[imino-4.1-phenyleneimino(2-oxo-2,1-ethanediyl)]bis-, hexakis(1,1-dimethylethyl) ester (9CI) (CA INDEX NAME)

L24 ANSWER 21 OF 71 USPATFULL (Continued) L24 ANSWER 21 OF 71 USPATFULL (Continued)

PAGE 1-A

PAGE 1-B

L24 ANSMER 21 OF 71 USPATFULL (Continued)
CN 5-0xa-4,8,13-triazaoctadecan-18-oic acid,
17-[(4-[(2-amino-1,4-dihydro-4-oxo-6-pteridinyl)methyl]amino]benzoyl]amino]-2,10-bis(hydroxyimino)-3,3,9,9-tetramethyl-14-oxo-,1,1-dimethylethyl ester, (175)-(9CI) (CA INDEX INAMS)

Absolute stereochemistry.
Double bond geometry unknown.

PAGE 1-B

PAGE 2-A

PAGE 2-B

RN 251084-76-1 USPATFULL CN 5-0xa-4,8,13-triezaoctadecan-18-oic acid, 15-[[4-[[(2-amino-1,4-dihydro-4-oxo-6-pteridiny1)methyl]amino]benzoy1]amino]-2,10-bis(hydroxyimino)-3,3,5,9-tetramethyl-14-oxo-, 1,1-dimethylethyl ester, (155)- [9CI] (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.

251084-80-7 USPATFULL

L24 ANSWER 22 OF 71 USPATFULL ACCESSION NUMBER: 2001:55: TITLE: Polyeste

INVENTOR (S) :

SPATFULL
2001:55490 USPATFULL
Polyester analogue of poly-L-lysine as a soluble,
biodegradable gene delivery carrier
Park, Jong Sang, Seoul, Korea, Republic of
Choi, Young Hun, Seoul, Korea, Republic of
Kim, Sung Man, Salt Lake City, UT, United States
Expression Genetics, Inc., Salt Lake City, UT, United
States (U.S. corporation)

PATENT ASSIGNEE(S):

NUMBER KIND DATE
US 6217912 B1 20010417
US 1999-352473 19990713 (9) PATENT INFORMATION: APPLICATION INFO.:

NUMBER DATE
US 1998-92682P 19980713
Utility
Granted
Brusca, John S.
Shibuya, Mark L.
Thorpe North & Western, LLP
41

L24 ANSWER 23 OF 71 USPATFULL ACCESSION NUMBER: 2001:43

2001:43748 USPATFULL Dosage forms for the treatment of the chronic TITLE: glaucomas INVENTOR(S):

Richardson, Kenneth T., Anchorage, AK, United States Pearson, Don C., Lakewood, WA, United States ChronoRX, LLC, Anchorage, AK, United States (U.S. corporation) PATENT ASSIGNEE(S):

NUMBER KIND DATE US 6207190 US 1999-372362 B1 20010327 19990811 (9) PATENT INFORMATION: APPLICATION INFO.

> NUMBER DATE

PRIORITY INFORMATION: DOCUMENT TYPE: PILE SEGMENT:

PRIMARY EXAMINER

US 1998-96658P 19980813 (60) Utility Granted Spear, James M. Townsend and Townsend and Crew LLP

LEGAL REPRESENTATIVE: NUMBER OF CLAIMS: EXEMPLARY CLAIM:

EXEMPLEATE COATS.

LINE COUNT: 1808

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Four interdependent functional groups of biofactors and biomolecules

identified and formulations are defined which are comprised of their members. The active agents are demonstrated to be complementary in

physiological functions especially as these relate to endothelial biochemistry and physiology, hyperinsulinemia and, ultimately, to vascular health. The active components of the invention are selected

inclusion in precise combinations that reduce a variety of risks of vasculopathy in addition to reducing intraocular pressure. Widespread systemic improvement associated with local, optic nerve betterment of vascular health, reduces the risk of optic nerve atrophy with its accompanying visual field loss and potential blindness. The reduction

this maximizes the potential clinical therapeutic success of current medical, 10P-lowering, anti-glaucoma mediations.
59-30-3, Polic acid, biological studies (oral dosage forms contg, amino acids, trace elements and vitamins for treatment of chronic glaucoma)
59-30-3 USPATFULL
L-Glutamic acid, N-[4-[{(2-amino-1,4-dihydro-4-oxo-6-pteridinyl)methyl]amino]benzoyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L24 ANSWER 23 OF 71 USPATFULL (Continued)

L24 ANSWER 24 OF 71 USPATFULL ACCESSION NUMBER: 2001:43 TITLE:

SPATFULL
2001:43711 USPATFULL
Antigen binding fragments that specifically detect
cancer cells, nucleotides encoding the fragments, and
use thereof for the prophylaxis and detection of
cancers
Dan, Michael D., Scarborough, Cenada
Maiti, Pradip K., Winnipeg, Canada
Kaplen, Howard A., Winnipeg, Canada
Viventia Biotech, Inc., Toronto, Canada (non-U.S.
corporation)

INVENTOR(S):

PATENT ASSIGNEE(S):

NUMBER KIND DATE

US 6207153 B1 20010327
US 1997-862124 19970522 (a)
Continuation-in-part of Ser. No. US 1996-657449, filed on 22 May 1996, now abandoned
Utility
Granted
Banaal, Geetha P.
Frommer Lawrence & Haug LLP
35 PATENT INFORMATION: APPLICATION INFO.: RELATED APPLN. INFO.:

DOCUMENT TYPE:
FILE SEGMENT:
PRIMARY EXAMINER:
LEGAL REPRESENTATIVE:
NUMBER OF CLAIMS:
EXEMPLARY CLAIM:
NUMBER OF DRAWINGS:
LINE COUNT:

NUMBER OF CLAIMS: 35
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 26 Drawing Figure(a); 14 Drawing Page(s)
LINE COUNT: 3359
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB The present invention relates to monoclonal antibody Hil and antigen binding fragments that specifically bind to the antigen recognized by Hil, the C-antigen is found specifically on neoplastic cells and not on normal cells. Also disclosed are polymucleotide and polypeptide derivatives based on Hil, including single chain V region molecules and fusion proteins, and various pharmaceutical compositions. When administered to an individual, the Hil antibody is effective in diagnosing, localizing, and/or treating neoplasias. The invention further provides methods for treating a neoplastic disease, particularly melanoma, neuroblestoma, glioma, soft tissue sarcoma, and small cell ling carcinoma. Patients who are in remission as a result of traditional modes of cancer therapy may be treated with a composition of this invention in hopes of reducing the risk of recurrence. Patients may also

also

be treated concurrently with the antibodies and traditional
anti-neoplastic agents.

IT 59-05-2D, Methotrexate, conjugates
(with antibody constructs targeting C-antigen of tumors)
RN 59-05-2 USPATPULL
CN L-Glutemic acid.
N-[4-[(2,4-diamino-6-pteridinyl)methyl]methylamino]benzo
yl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L24 ANSWER 24 OF 71 USPATFULL

L24 ANSMER 25 OF 71 USPATFULL

ACCESSION NUMBER: 2000:164081 USPATFULL

Tissue factor methods and compositions for coagulation and tumor treatment

INVENTOR(S): Thorpe, Philip E., Dallas, TX, United States

King, Steven M., Foothill Ranch, CA, United States

Gao, Boning, Dallas, TX, United States

Gao, Boning, Dallas, TX, United States

Board of Regente, The University of Texas System, Austin, TX, United States (U.S. corporation)

NUMBER KIND DATE PATENT INFORMATION: APPLICATION INFO.: US 6156321 US 1998-9822 20001205 19980120 (9)

NUMBER DATE

US 1997-42427P 19970327 US 1997-36205P 19970127 US 1997-35920P 19970122 Utility Granted Bannal, Geetha P. Williams, Morgan and Amerson 19970327 (60) 19970127 (60) 19970122 (60) PRIORITY INFORMATION:

DOCUMENT TYPE:

DOCUMENT TYPE: Utility
PILE SEGMENT: Granted
PRIMARY EXAMINE: Banaal, Geetha P.
LEGAL REPRESENTATIVE: Williams, Morgan and Amerson
NUMBER OF CLAIMS: 1,3
NUMBER OF CLAIMS: 1,3
NUMBER OF DRAWINGS: 25 Drawing Figure(a): 15 Drawing Page(s)
LINE COUNT: 7500
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB The invention embodies the aurpriaing discovery that Tisaue Factor (TF)
compositions and variants thereof specifically localize to the blood
vessels within a vascularized tumor following systemic administration.
The invention therefore provides methods and compositions comprising
coagulation and for use in tumor treatment. The TF compositions and
methods of present invention may be used alone, as TF conjugates with
improved half-life, or in combination with other agenta, such as
conventional chemotherapeutic drugs, targeted immunotoxins, targeted
coaguliganda, and/or in combination with factor VIIa (FVIIa) or FVIIa
activators.

IT 59-05-2 Wethotrexate
{tissue factor methods and compns. for targeted coagulation and tumor
treatment)
RN 59-05-2 USPATFULL
CN L-Glutamic acid,
N-[4-[(2,4-dimino-6-pteridinyl)methyl]methylamino]benzo
yl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

Absolute stereochemistry

L24 ANSWER 26 OF 71 USPATFULL ACCESSION NUMBER: 2000:14:

SPATFULL
2000:146146 USPATFULL
Cell-targeting molecule comprising a mutant human
carboxypeptidase A
Smith, Gary Keith, Raleigh, NC, United States
Blumenkopf, Todd Andrew, Old Lyme, CT, United States
Cory, Michael, Chapel Hill, NC, United States
Glaxo Wellcome Inc., Research Triangle Park, NC,

INVENTOR (S):

PATENT ASSIGNEE(S): United

States (U.S. corporation)

NUMBER BER KIND DATE PATENT INFORMATION: US 6140100 WO 9513095 US 1996-640906 WO 1994-GB2483 20001031 19950518 19960509 19941111 APPLICATION INFO .: (8)

PCT 371 date PCT 102(e) date 19960509

NUMBER DATE GB 1993-23429 Utility Granted 19931112

PRIORITY INFORMATION: DOCUMENT TYPE: FILE SEGMENT: PRIMARY EXAMINER:

Achutamurthy, Ponnathapura Moore, William W. Grassler, Frank P., Bennett, Virginia C., Hrubiec, Robert T. ASSISTANT EXAMINER LEGAL REPRESENTATIVE:

NUMBER OF CLAIMS:

LINE COUNT:

7 Drawing Figure(s); 5 Drawing Page(s)

LINE COUNT:

7473

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Conjugates of a cell targetting molecule and a mutant human carboxypeptidase A enzyme are provided. Suitable targetting molecules include antibodies, hormones, ligands, cytokines, antigens, oligonucleotides and peptidomimetics. Enzymes comprising a mutant human carboxypeptidase A enzyme are also provided.

1T 167549-87-19 167549-96-49 167550-14-19

167550-27-89 167550-86-39 167550-98-39

167551-08-99

(improvement of anrihed.

147551-08-89
(improvement of antibody-directed enzyme prodrug therapy (ADEPT))
RN 167549-87-3 USPATPULL
CN L-Phenylalanine,
N-[4-[(2,4-diamino-6-pteridinyl)methyl]methylamino)benzo
yl]-L-.alpha.-glutamyl-2-cyclopentyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L24 ANSWER 25 OF 71 USPATPULL (Continued)

L24 ANSWER 26 OF 71 USPATFULL (Continued)

RN 167549-96-4 USPATPULL CN L-Phenylalanine, N-{4-[[(2,4-diamino-6-pteridinyl)methyl]methylamino|benzo yl]-L-alpha.-glutamyl-3-cyclopentyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

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RN 167550-14-3 USPATPULL
CN L-Phenylalanine,
N-[4-[{2,4-diamino-6-pteridinyl)methyl]methylamino|benzo
yl]-L-.alpha.-glutamyl-3-{1,1-dimethylethyl}- (9CI) (CA INDEX NAME)

L24 ANSWER 26 OF 71 USPATFULL (Continued)

PAGE 1-B

RN 167550-27-8 USPATFULL
CN L-Phenylalanine,
N-{4-[(2,4-diamino-6-pteridiny1)methyl]methylamino|benzo
yl]-L-.elpha.-glutamyl-3-cyclobutyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

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L24 ANSWER 26 OF 71 USPATFULL (Continued)

PAGE 1-B

RN 167550-81-4 USPATFULL
CN L-Tyrosine,
N-{4-{(2,4-diamino-6-pteridiny1)methyl]methylamino|benzoy1}-L.alpha.-glutamy1-2-cyclopenty1- (9C1) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A

PAGE 1-B

RN 167550-86-9 USPATFULL CN L-Tyrosine, N-[4-[[(2,4-diamino-6-pteridinyl)methyl]methylamino]benzoyl]-L-...alpha.-glutamyl-3,5-diiodo- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L24 ANSMER 26 OF 71 USPATFULL (Continued)
RN 167550-54-1 USPATFULL
CN L-Phenylalanine,
N-{N-{4-{{(2,4-diamino-6-pteridinyl)methyl}methylamino|be}
nzoyl}-L-.alpha.-glutamyl}-3-(trimethylsilyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-B

_SiMe3

RN 167550-61-0 USPATFULL CN L-Tyrosine, N-[4-[[(2,4-diamino-6-pteridinyl)methyl}methylamino]benzoyl]-L-.alpha.-glutamyl-3-cyclopentyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

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L24 ANSWER 26 OF 71 USPATFULL

PAGE 1-A

PAGE 1-B

Absolute stereochemistry.

PAGE 1-A

L24 ANSWER 26 OF 71 USPATFULL (Continued)

PAGE 1-B

RN 167551-08-8 USPATFULL
CN L-Tyrosine,
N-[4-{{{2,-d-dismino-6-pteridinyl}methyl}methylamino|bentoyl}-L.alpha.-glutamyl-3-{1,1-dimethylethyl}- (9CI) (CA INDEX NAME)

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PAGE 1-B

1T 71074-48-1P 118355-51-4P 167549-40-8P 167549-42-0P 167549-49-7P 167549-50-0P 167549-42-0P 167549-57-7P 167549-66-8P 167549-67-9P 167549-67-60P 167549-67-8P 167549-76-0P 167549-86-3P 167550-18-7P 167550-86-7P 167550-05-2P 167550-05-3P 167550-38-7P 167550-38-7P 167550-39-167550-86-3P 167550-71-2P 167550-71-3P 167550-80-3P

L24 ANSWER 26 OF 71 USPATFULL (Continued)

Absolute stereochemistry.

167549-42-0 USPATFULL

NN 16/39-42-0 USFAIRUDE
Ch. L-Alenine,
N-[4-[[(2,4-diamino-6-pteridinyl)methyl]methylamino]benzoyl]-L.alpha.-glutamyl-3-(1-naphthalenyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

Absolute stereochemistry.

L24 ANSMER 26 OF 71 USPATFULL (Continued)

167550-85-8P 167550-97-2P 167551-07-7P

(improvement of antibody-directed enzyme prodrug therapy (ADEPT))

RN 71074-48-1 USPATFULL

CN L-Aspartic acid.

N-{4-{(2,4-diamino-6-pteridinyl)methyl]methylamino|benzo
 yl}-L-alpha.-glutamyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 118355-51-4 USPATFULL
CN L-Aspartic acid,
N-(N-[4-[1(2,4-diamino-6-pteridiny1)methyl]methylamino]be
nzoyl]-L-alpha.-glutamyl]-, tris(1,1-dimethylethyl) ester (9CI) (CA
INDEX NAME)

Absolute stereochemistry.

RN 167549-40-8 USPATPULL
CN L-Alanine,
N-(N-[4-[[4],4-diamino-6-pteridinyl)methyl]methylamino}benzoyl]L-.elpha--glutamyl)-3-(1-naphthalenyl)-, diethyl ester (9CI) (CA INDEX NAME)

L24 ANSWER 26 OF 71 USPATFULL (Continued)

PAGE 1-B

--- OMe

RN 167549-50-0 USPATFULL CN L-Phenylalanine, N-[4-[[(2,4-diamino-6-pteridinyl)methyl]methylamino|benzo yl|-L-alpha-glutamyl-2-carboxy- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 167549-54-4 USPATFULL
CN L-Aspartic acid,
N-[N-[1(2,4-diamino-6-pteridinyl)methyl]methylamino|be
nzoyl]-L-.alpha.-glutamyl]-, trimethyl ester (9CI) (CA INDEX NAME)

L24 ANSWER 26 OF 71 USPATPULL (Continued)

RN 167549-57-7 USPATFULL
CN L-Aspartic acid,
N-{N-{4-{(2,4-diamino-6-pteridinyl)methyl}methylamino}be
nzoyl}-L-.alpha.-glutamyl}-, triethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

167549-66-8 USPATFULL

NN 16-739-80-5 CONTROL OF THE PROPERTY OF THE

Absolute stereochemistry.

L24 ANSWER 26 OF 71 USPATFULL (Continued)

RN 167549-75-9 USPATFULL
CN L-Phenylalanine,
N-[N-{4-{|(2,4-dlamino-6-pteridinyl)methyl]methylamino|be
nzoyl|-L-alpha.-glutamyl]-3-(methoxycarbonyl)-, bis(1,1-dimethylethyl)
ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L24 ANSWER 26 OF 71 USPATFULL (Continued)

PAGE 1-B

RN 167549-67-9 USPATFULL
CN L-Tycosine,
N-[4-{(2,4-diamino-6-pteridinyl)methyl]methylamino|benzoyl}-L.alpha.-glutamyl-3-carboxy- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L24 ANSWER 26 OF 71 USPATFULL (Continued)

PAGE 1-B

Absolute stereochemistry.

PAGE 1-A

PAGE 1-B

_ CO2H

167549-86-2 USPATFULL
L-Phenylalanine, 2-cyclopentyl-N-{N-{4-{[(2,4-diamino-6-pteridinyl|methyl]methylamino|benzoyl]-L-.alpha.-glutamyl}-,
bis(1,1-dimethylethyl) ester (9CI) (CA INDEX NAME)

L24 ANSWER 26 OF 71 USPATFULL (Continued)

167549-95-3 USPATFULL L-Phenylalanine, 3-cyclopentyl-N-[N-{4-{[(2,4-diamino-6-pteridinyl)methyl]methylamino]benzoyl]-L-alpha.-glutamyl]-, bis(1,1-dimethylethyl) ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-B

$$\Box$$

167550-05-2 USPATFULL
L-Phenylalanine, 2-cyclohexyl-N-{N-{4-{[(2,4-diamino-6-pteridinyl]methylamino|benzoyl]-L-alpha.-glutamyl}-,
bis(1,1-dimethylethyl) ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L24 ANSWER 26 OF 71 USPATFULL (Continued)

PAGE 1-B

_Bu-t

167550-26-7 USPATFULL L-Phenylalanine, 3-cyclobutyl-N-{N-{4-{[(2,4-diamino-6-pteridinyl)methyl]methylamino|benzoyl]-L-alpha.-glutamyl}-, bis(1,1-dimethylethyl) ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-B

124 ANSWER 26 OF 71 USPATFULL (Continued)

RN 167550-06-3 USPATFULL CN L-Phenylalanine, N-[4-[(2.4-diamino-6-pteridinyl)methyl]methylamino]benzo yl]-L-.elpha.-glutamyl-2-cyclohexyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

Absolute stereochemistry.

Absolute stereochemistry.

Absolute stereochemistry.

PAGE 1-B

L24 ANSWER 26 OF 71 USPATFULL (Continued)
RN 16750-60-9 USPATFULL
CN L-Tyrosine, 3-cyclopenty1-N-{N-{4-{{(2,4-diamino-6-pteridiny1)methy1)methy1entoy1}-L-.alpha.-glutamy1}-,
bis(1,1-dimethy1ethy1) ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-B

RN 167550-71-2 USPATFULL
CN L-Phenylalanine,
N-[N-[4-[[(2,4-diamino-6-pteridinyl)methyl]methylamino]be
nzoyl]-L-.alpha.-glutamyl]-3-(1-ethylpropyl)-, bis(1,1-dimethylethyl)
ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L24 ANSWER 26 OF 71 USPATFULL (Continued)

PAGE 1-B

_CHEt2

167550-80-3 USPATFULL
L-Tyrosine, 2-cyclopentyl-N-{N-{4-{{(2,4-diamino-6-pteridinyl|methyl|methylamino|benzoyl}-L-.alpha.-glutamyl}-, diethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A

PAGE 1-B

RN 167550-85-8 USPATFULL
CN L-Tyrosine.
N-(N-(4-[(12.4-diamino-6-pteridinyl)methyl]methylamino|benzoyl
]-L-alpha.-glutamyl)-3,5-diiodo-, big(1,1-dimethylethyl) ester (9CI)
(CA INDEX NAME)

Absolute stereochemistry.

L24 ANSWER 26 OF 71 USPATFULL (Continued)

PAGE 1-B

∠CHEt 2

RN 167550-72-3 USPATPULL
CN L-Phenylalanine,
N-{N-{N-{4-{(r, 4.4 casino-6-pteridinyl)methyl}methylamino|be}
nzoyl}-L-.alpha.-glutamyl]-3-{1-ethylpropyl}- {9Cl} (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A

L24 ANSWER 26 OF 71 USPATFULL (Continued)

PAGE 1-B

RN 167550-97-2 USPATPULL
CN L-Glutamic acid,
N-(4-[(2,4-diamino-6-pteridinyl)methyl)methylamino|benzo
yl]-,1-[1-[(3-cyclopentyl-4-hydroxyphenyl)methyl]-2-(1,1dimethylethoxy)-2-oxoethyl] 5-(1,1-dimethylethyl) ester, (S)- (9CI)

INDEX NAME)

L24 ANSWER 26 OF 71 USPATFULL (Continued) L24 ANSWER 26 OF 71 USPATFULL (Continued)

PAGE 1-B

PAGE 1-B

RN 167551-07-7 USPATFULL
CN L-Tyrosine.
N-{N-{4-{(4,4-4,4-4),4-4),4-4}} | hethyllmethyllmethyllmino|benzoyl
|-b-.alpha.-glutamyl|-3-(1,1-dimethylethyl)-, bis(1,1-dimethylethyl)
| ester {9Cl} (CA INDEX NAME)

PAGE 1-A

IT 59-05-2DP, Methotrexate, derivs.

(prodrugs; improvement of antibody-directed enzyme prodrug therapy (ADEPT))

RN 59-05-2 USPATFULL

CN L-Glutamic acid,
N-[4-[[(2,-d-diamino-6-pteridinyl]methyl]methylamino]benzo
yl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

ANSWER 27 OF 71 USPATFULL

ACCESSION NUMBER: TITLE:

2000:137819 USPATFULL Combined tissue factor and chemotherapeutic methods

compositions for coagulation and tumor treatment Thorpe, Philip E., Dallas, TX, United States King, Steven W., Foothill Ranch, CA, United States Geo, Boning, Dallas, TX, United States Board of Regenta, The University of Texas System, Austin, TX, United States (U.S. corporation) INVENTOR (S):

PATENT ASSIGNEE(S):

NUMBER KIND DATE PATENT INFORMATION: APPLICATION INFO.: US 6132729 US 1998-9217 20001017 19980120 (9)

NUMBER DATE

97-42427P 19970327 (60)
97-35205P 19970127 (60)
97-35920P 19970122 (60) US 1997-42427P 19970327 US 1997-35205P 19970127 US 1997-35920P 19970127 Utility Granted Bansal, Geetha P. Williams, Morgan & Amerson 46 PRIORITY INFORMATION:

DOCUMENT TYPE:
FILE SEGMENT:
PRIMARY EXAMINER:
LEGAL REPRESENTATIVE:
NUMBER OF CLAIMS:
EXEMPLARY CLAIM:
NUMBER OF DRAWINGS:
LINE COUNT:

NUMBER OF CLAIMS: 46
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 35 Drawing Pigure(s); 15 Drawing Page(s)
LINE COUNT: 7498
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

The invention embodies the surprising discovery that Tissue Pactor (TF) compositions and variants thereof specifically localize to the blood vessels within a vascularized tumor following systemic administration. The invention therefore provides methods and compositions comprising coagulation-deficient Tissue Pactor for use in effecting specific coagulation-and for use in tumor treatment. The FF compositions and methods of present invention may, be used alone, as TF conjugates with improved half-life, or in combination with other agents, such as conventional chemotherapeutic drugs, targeted immunotoxins, targeted coaguligands, and/or in combination with factor VIIa (FVIIa) or FVII activators.

IT 59-05-2 Wethotrexate
(tissue factor methods and compns. for targeted coagulation and tumor treatment)
RN 59-05-2 USPATPULL
CN L-Glutamic acid,
N-[4-[(2.4-diamino-6-pteridinyl)methyl]methylamino]benzo
yl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

Absolute stereochemistry.

L24 ANSWER 27 OF 71 USPATFULL (Continued)

L24 ANSWER 28 OF 71 USPATFULL ACCESSION NUMBER: 2000:94

INVENTOR(S):

SPATFULL
2000:94651 USPATFULL
Ratal complexes derivatized with
folate for use in diagnostic and therapeutic
applications
Medeking, Paul W., Pennington, NJ, United States
Mager, Ruth E., Rockville, MD, United States
Arunachales, Thangavel, Plainsboro, NJ, United States
Ramalingam, Kondareddiar, Dayton, NJ, United States
Linder, Karen E., Kingaton, NJ, United States
Ranganathan, Ramachandran S., Princeton, NJ, United
States

Ranganathan, Ramacnanuse. ... States Nunn, Adrian D., Lambertville, NJ, United States Raju, Natarajan, Kendall Park, NJ, United States Treedle, Michael P., Princeton, NJ, United States Bracco Research USA Inc., Princeton, NJ, United States (U.S. corporation)

PATENT ASSIGNEE (S):

DATE

NUMBER KIND
US 6093382
US 1998-80157
Utility
Granted
Dees, Jose' G.
Jones, Dameron
Balogh, Imre
36

[[4-[[(2-amino-1,4-dihydro-4-oxo-6-pteridinyl)methyl]amino]benzoyl}amino }-4-carboxy-1-oxobutyl]amino]phenyl]amino]-2-oxoethyl}- (9CI) (CA

Absolute stereochemistry.

L24 ANSWER 28 OF 71 USPATFULL (Continued)

PAGE 1-A

251084-43-2 USPATFULL
1,4,7,10-Tetraazacyclododecane-1,4,7-triacetic acid, 10,10'-{{(2S)-2-{{4-(2-anino-1,4-dihydro-4-oxo-6-pteridinyllmethyllamino}benzoyllamino}-1,5-dioxo-1,5-pentanediyllbig/simino-4,1-phenyleneimino(2-oxo-2,1-ethanediyl)}]bis- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L24 ANSWER 28 OF 71 USPATFULL (Continued)

PAGE 1-A

PAGE 1-B

251084-40-9 USPATFULL 1,4,7,10-Tetraazacyclododecane-1,4,7-triacetic acid, 10-[2-[[4-[[(2S)-2-

[[4-[[(2-amino-1,4-dihydro-4-oxo-6-pteridinyl)methyl]amino]benzoyl]amino]-4-carboxy-1-oxobutyl]amino]phenyl]amino]-2-oxoethyl]- (9CI) (CA

Absolute stereochemistry.

L24 ANSWER 28 OF 71 USPATFULL (Continued)

PAGE 1-A

PAGE 1-B

RN 251084-49-8 USPATPULL
CN 5-OXa-4,8,13-triazaoctadecan-18-oic acid,
15-[[4-[[(2-amino-1,4-dihydro-4oxo-6-pteridinyl)methyl]lamino]benzoyl]amino]-2,10-bis(hydroxyimino)3,3,9,9-tetramethyl-14-oxo-, (15S)- (9CI) (CA INDEX NAME)

PAGE 1-A

L24 ANSWER 28 OF 71 USPATFULL (
Absolute stereochemistry.
Double bond geometry unknown. (Continued)

PAGE 1-B

251084-50-1 USPATFULL
Technetate(1-)-99Tc, {(4S)-4-[(4-[(4-amino-1,4-dihydro-4-oxo-6-pteridinyl)meino)benzoyl}amino]-9,17-bis(hydroxyimino-.kappa.N)-10,10,16,16-tetraimethyl-5-oxo-14-oxa-6,11,15-triazaoctadecanoato(4-})-,hydrogen, (SP-5-15)- (9CI) (CA INDEX NAME)

L24 ANSWER 28 OF 71 USPATFULL (Continued)

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Absolute stereochemistry.
Double bond geometry unknown.

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tetraazacyclododecane-1,4,7-triacetato(4-)-.kappa.N1,.kappa.N4,.kappa.N7,.kappa.N10,.kappa.O1,.kappa.O4,.kappa.O7)-, sodium (9CI) (CA INDEX NAME)

L24 ANSWER 28 OF 71 USPATFULL (Continued)

PAGE 1-A

PAGE 1-B

251084-39-6 USPATFULL
Gadolinate(1-)-153Gd, [10-[2-[[4-[[4-[[4-[[4-[(4-amino-1,4-dihydro-4-oxo-6pteridiny]]methy]]amino]benzoy]]amino]-4-carboxy-1oxobutyl]amino]phenyl]amino]-2-(oxo-.kappa.0)ethyl]-1,4,7,10-

tetraazacyclododecane-1,4,7-triacetato(4-)-.kappa.N1,.kappa.N4,.kappa.N7
, .kappa.N10,.kappa.01,.kappa.04,.kappa.07]-, sodium (9CI) (CA INDEX NAME)

L24 ANSWER 28 OF 71 USPATFULL (Continued)

PAGE 1-B

251084-41-0 USPATFULL
Gadolinate(1-), [10-{2-[{4-{{2-{{4-{{1-{2-{4-{1}{4-{anino-1,4-dihydro-4-oxo-6-pteridinyl) methyl|amino|benzoy|lamino|-4-carboxy-1-oxobutyl}amino|phenyl]amino}-2-(oxo-.kappa.O)ethyl}-1,4,7,10-

tetraazacyclododecane-1,4,7-triacetato(4-)-.kappa.N1,.kappa.N4,.kappa.N7,
,.kappa.N10,.kappa.01,.kappa.04,.kappa.07}-, sodium (9CI) (CA INDEX NAME)

L24 ANSWER 28 OF 71 USPATFULL (Continued)

● Na +

PAGE 1-B

251084-44-3 USPATFULL
Gadolinium, {.mu.-[[10.10'-[[2-[[4-[[(2-amino-1,4-dihydro-4-oxo-6-pteridiny]]methyl]mino]benzoy]amino]-1,5-dioxo-1,5-pentanediyl]bis[imino-4,1-phenyleneimino[2-(oxo-kappa.0)-2,1-ethanediyl]]bis[1,4,7,10-tetraazacyclododecane-1,4,7-triacetato-

.kappa.N1,.kappa.N4,.kappa.N7,.kappa.N10,.kappa.O1,.kappa.O4,.kappa.O7]]
(6-)]]di- (9CI) (CA INDEX NAME)

L24 ANSWER 28 OF 71 USPATFULL (Continued)

PAGE 1-A

PAGE 1-B

251084-42-1 USPATFULL Gadolinate(1-)-1530d, [10-[2-[{4-[[2-{[4-[[2-amino-1,4-dihydro-4-oxo-6-pteridinyl)methyl] amino] benzoyl]amino]-4-carboxy-1-oxobutyl]amino]phenyl]amino]-2-(oxo-.kappa.0)ethyl]-1,4,7,10-

tetraazacyclododecane-1,4,7-triacetato(4-)-.kappa.N1,.kappa.N4,.kappa.N7,.kappa.N10,.kappa.O1,.kappa.O4,.kappa.O7]-, sodium (9CI) (CA INDEX NAME)

L24 ANSWER 28 OF 71 USPATFULL (Continued)

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PAGE 1-B

L24 ANSWER 28 OF 71 USPATFULL (Continued)

L24 ANSWER 28 OF 71 USPATFULL (Continued)

RN 251084-45-4 USPATPULL
CN Gadolinium-1530d, [.mu.-[{10,10'-{{2-{(4-{((2-amino-1,4-dihydro-4-oxo-6-pteridinyl)methyl)amino}-1,5-dioxo-1,5-pentanediyl)bis[imino-4,1-phenyl-eneimino[2-(oxo-.kappa.0)-2,1-ethanediyl)]}bis[1,4,7,10-tetraszacyclododecane-1,4,7-triacetato-

.kappa.N1, .kappa.N4, .kappa.N7, .kappa.N10, .kappa.O1, .kappa.O4, .kappa.O7]]
(6-))]di- (9C1) (CA INDEX NAME)

RN 251084-52-3 USPATFULL
CN Technetate(1-)-99Tc, [(2S)-2-[[4-[[(2-amino-1,4-dihydro-4-oxo-6-pteridinyl)methyl]amino]benzoyl]amino]-9,17-bis(hydroxyimino-.kappa.N)-10,10,16,16-tetramethyl-5-oxo-14-oxa-6,11,15-triazaoctadecanoato(4-)]-, hydrogen, (SP-5-15)- (9CI) (CA INDEX NAME)

PAGE 1-B

L24 ANSWER 28 OF 71 USPATFULL (Continued)

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L24 ANSWER 28 OF 71 USPATFULL (Continued)

PAGE 3-A

251084-56-7P 251084-60-3P 251084-64-7P
251084-76-1P 251084-80-7P
{reactant for prepn. of metal complexes for use in diagnostic and therapeutic applications)
251084-56-7 USPATPULL
1,4,7,10-Tetraszacyclododecane-1,4,7-triscetic acid, 10-{2-{[4-{[(45)-4-

[[4-[[(2-amino-1,4-dihydro-4-oxo-6-pteridinyl)methyl]amino]benzoyl]amino

]-5-(1,1-dimethylethoxy)-1,5-dioxopentyl]amino]phenyl]amino]-2-oxoethyl}, tris(1,1-dimethylethyl) ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A

L24 ANSWER 28 OF 71 USPATFULL (Continued)

PAGE 1-B

251084-64-7 USPATFULL

1.4.7.10-Tetranzacyclododecane-1.4.7-triacetic acid, 10,10'-[[(25)-2-[{4-[(2-mino-1.4-dihydro-4-oxo-6-pteridinyl)methyl]amino]benzoyllamino]1,5-dioxo-1,5-pentanediyl]bis[imino-4,1-phenylenelmino(2-oxo-2,1-ethanediyl)]bis-, hexakis(1,1-dimethylethyl) ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A

L24 ANSWER 28 OF 71 USPATFULL (Continued)

251084-60-3 USPATFULL 1,4,7,10-Tetraszacyclododecane-1,4,7-triacetic acid, 10-{2-{{4-{[(2S)-2-

[[4-[{(2-amino-1,4-dihydro-4-oxo-6-pteridinyl)methyl}amino]benzoyl]amino

}-5-(1,1-dimethylethoxy)-1,5-dioxopentyl}amino}phenyl]amino]-2-oxoethyl], tris(1,1-dimethylethyl) ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A

L24 ANSWER 28 OF 71 USPATFULL (Continued)

PAGE 1-B

PAGE 2-B

RN 251084-76-1 USPATFULL CN 5-0xa-4.8.13-triezaoctadecan-18-oic acid, 15-{(4-[(2-amino-1,4-dihydro-4-oxo-6-pteridinyl)methyl|amino|benzoyl]amino|-2,10-bis(hydroxyimino)-3,3,9,9-tetramethyl-14-oxo-, 1,1-dimethylethyl ester, (155)- (9Cl) (CA INDEX NAME)

RN 251084-80-7 USPATFULL CN 5-0xa-4.8.13-triezaoctadecan-18-oic acid, 17-[{4-[(2-amino-1,4-dihydro-4-oxo-6-pteridinyl)methyl]amino]benzoyl]amino]-2,10-bia(hydroxyimino)-3,3,9,9-tetramethyl-14-oxo-, 1,1-dimethylethyl ester, (175)- (9CI) (CA-sumer uses)

Absolute stereochemistry. Double bond geometry unknown.

L24 ANSMER 29 OF 71 USPATFULL
ACCESSION NUMBER: 2000:91722 USPATFULL
TITLE: Homogeneous inmunoassays using mutant
glucose-6-phosphate dehydrogensses
Jakobovits, Edward Benjamin, Menlo Park, CA, United

Jakobovits, Edward Benjamin, menio raw,
States
Silen, Joy L., Belmont, CA, United States
Levy, Mark J., San Jose, CA, United States
Goodman, Thomas C., Mountain View, CA, United States
Becker, Martin, Palo Alto, CA, United States
Ullman, Edwin P., Atherton, CA, United States
Caldwell, Robert M., San Carlos, CA, United States
Bott, Richard R., Burlingame, CA, United States
Barnett, Christopher Charles, South San Francisco, CA,
United States
Behringwerke AG, Marburg, Germany, Federal Republic of
(non-U.S. corporation)

PATENT ASSIGNEE(S):

NUMBER KIND DATE

US 6090567 20000718
US 1995-445464 19950522 (8)
Division of Ser. No. US 1993-44857, filed on 8 Apr PATENT INFORMATION:

APPLICATION INFO.: RELATED APPLN. INFO.:

RELATED APPLN. INFO.:
1993
DOCUMENT TYPE:
PILE SEGMENT:
PRIMARY EXAMINER:
ASSISTANT EXAMINER:
LEGAL REPRESENTATIVE:
NUMBER OF CLAIMS:
EXEMPLARY (LAIM:
NUMBER OF DRAWINGS:
LINE COUNT:

Utility
Granted
Housel, James C.
Portner, Ginny Allen
Bosse, Mark L., Peries, Rohan, Leitereg, Theodore J.

16 Drawing Figure(s); 16 Drawing Page(s)

NUMBER OF DRAWINGS: 16 Drawing Figure(s); 16 Drawing Page(s)
LINE COUNT:
3696
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB Methods for immunosessy of analytes employing mutant
glucose-6-phosphate
dehydrogenase (G6PDH) enzymes as labels. In particular, the invention
relates to the use of conjugates of an analyte or analyte analog and a
mutant NAD.sup.+ dependent G6PDH differing from any precursor G6PDH by
the deletion, substitution, or insertion, or any combination thereof of
at least one amino acid per subunit. The invention slso involves the
construction of several mutations in precursor glucose-6-phosphate
dehydrogenase (G6PDH) enzymes. Typically, the mutations involve
deletion

or substitution of one or more lysine residues, or introduction of one or more cysteine residues by insertion of cysteine to precursor G6PDH

substitution of precursor G6PDH amino acids residues with cysteine. The present invention also relates to conjugates of the subject enzymes and specific binding pair members, kits useful in performing the methods of the invention, cell lines producing the subject enzymes, DNA sequences encoding the subject enzymes, and vectore containing DNA encoding the subject enzymes and designed to allow a host cell to produce the

subject

enzymes.

IT 59-30-3, Polic acid, analysis
(immunosnal. detn. of; homogeneous immunossays using conjugates of
analytes and substituted analogs of glucose-6-phosphate

dehydrogenaes)
RN 59-30-3 USPATFULL
CN L-Glutamic scid, N-[4-[[(2-amino-1,4-dihydro-4-oxo-6-

L24 ANSWER 29 OF 71 USPATFULL (Continued) pteridinyl)methyl]amino]benzoyl]- (9CI) (CA INDEX NAME) Absolute stereochemistry.

```
L24 ANSWER 30 OF 71 USPATFULL
ACCESSION NUMBER:
ACCESSION NUMBER Say-Jong, Mestwood, MA, United States
Bayer Corporation, East Walpole, MA, United States
(U.S. COTPORATION)

ACCESSION NUMBER KIND DATE

WS 6080591 20000627
APPLICATION INFO.:
CONTINUATION OF Ser. No. US 1993-312947, filed on 17
Apr 1993, now patented, Pat. No. US 5663074 which is a continuation of Ser. No. US 1993-312947, filed on 17
Apr 1992, now patented, Pat. No. US 5663074 which is a continuation of Ser. No. US 1998-249620, filed on 17
Apr 1992, now patented, Pat. No. US 5241070 which is continuation of Ser. No. US 1998-249620, filed on 26
Sep 1988, now abandoned
Utility
FILE SEGMENT:
Granted
Wortman, Donna
ASSISTANT EXAMINER:
BYUMBER OF CLAIMS:
15
EXEMPLARY CLAIM:
118
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB This invention is directed to novel nucleophilic polysubstituted aryl accidinium conjugates and the methods for preparation thereof. The nucleophilic polysubstituted aryl accidinium conjugates and the methods for preparation thereof. The nucleophilic polysubstituted aryl accidinium conjugates are useful in biological assays, including novel assays for the determination of Vitamin B.sub.12, folate, cortisol, estradiol, and thromboxane
B.sub.2.
IT 59-30-3, snalysis
(detn. of, with folate-accidinium ester deriv. conjugate)
RN 59-30-3 USPATFULL

Absolute stereochemistry.
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IT 59-30-3DP, derivs., conjugates with acridinium ester derivs. (prepn. of, for folate detn.)

L24 ANSWER 31 OF 71 USPATFULL
ACCESSION NUMBER: 2000:37407 USPATFULL
TITLE: Unit dosage forms for treatment of vasoconstriction related conditions
Richardson, Kenneth T., Anchorage, AK, United States
Pearson, Don C., Tacoms, WA, United States
ChronoRK, LLC, Anchorage, AK, United States (U.S. INVENTOR(S): PATENT ASSIGNEE(S): corporation) NUMBER KIND DATE NUMBER KIND DATE

US 6042849 20000328
US 1998-111055 19980707
Continuation of Ser. No. US 849068 PATENT INFORMATION: APPLICATION INFO.: RELATED APPLN. INFO.: (9) DATE NUMBER US 1996-15115P Utility Granted PRIORITY INFORMATION: 19960410 (60) PRIORITY INFORMATION:
DOCUMENT TYPE:
FILE SEGMENT:
PRIMARY EXAMINER:
LEGAL REPRESENTATIVE:
NUMBER OF CLAIMS:
EXEMPLARY CLAIM: Jordan, Kimberly Townsend and Townsend and Crew LLP EXEMPLARY CLAIM:

1 S71

CAS INDEXING IS AVAILABLE POR THIS PATENT.

AB Magnesium is formulated in combination with vitamin E, vitamin C, folate, selenium, and optionally melatonin a unit dosage form for oral administration, for the treatment of vasoconstriction and the physiological and pathological conditions giving rise to vasoconstriction. These active agents complement each other in auppressing these conditions, using a variety of mechanisms operating in in

conjunction with one another. The inclusion of magnesium in a plurality of forms provides additional advantages in terms of controlling and sustaining the release of magnesium in locations along the digestive tract where the magnesium will have its greatest effectiveness as a therapeutic agent, thus improving control over the clinical bioavailability of magnesium and in improving the selection of appropriate therapeutic ranges.

IT 59-10-3. Folic acid, biological studies (oral dosage forms contg. minerals and vitamins for treatment of vasoconstriction and related conditions)

RN 55-30-3 USPATPULL Vasoconstriction and related conditions; 59-30-3 USPATFULL L-Glutamic acid, N-[4-[[(2-amino-1,4-dihydro-4-oxo-6-pteridinyl)methyl]amino]benzoyl]- (9CI) (CA INDEX NAME)

н₂N Н Н СО2H

Absolute stereochemistry.

Absolute stereochemistry.

L24 ANSMER 30 OF 71 USPATFULL (Continued)
RN 59-30-3 USPATFULL
CN L-Glutamic acid, N-[4-[[(2-amino-1,4-dihydro-4-oxo-6-pteridinyl)methyl]amino]benzoyl]- (9CI) (CA INDEX NAME)

L24 ANSWER 31 OF 71 USPATFULL (Continued)

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L24 ANSMER 32 OF 71 USPATFULL
ACCESSION NUMBER: 2000:27766 USPATFULL
TITLE: Homogeneous imminoassays using mutant glucose-6-phosphate dehydrogenases
INVENTOR(S): Jakobovits, Edward Benjamin, Menlo Park, CA, United
                                                                               States
Silen, Joy L., Belmont, CA, United States
Levy, Mark J., San Jose, CA, United States
Goodman, Thomas C., Mountain View, CA, United States
Becker, Martin, Palo Alto, CA, United States
Ullman, Edwin F., Atherton, CA, United States
Caldwell, Robert M., San Carlos, CA, United States
Bott, Richard R., Burlingame, CA, United States
Barnett, Christopher Charles, South San Francisco, CA,
United States
Behring Disgnostics Gebb Machayan, Germany, Pederal
 PATENT ASSIGNEE(S):
                                                                                Republic of (non-U.S. corporation)
                                                                                                                  R KIND DATE
                                                                                                MIMBER
                                                                                US 6033890 20000307
US 1995-445463 19950522 (8)
Division of Ser. No. US 1993-44857, filed on 8 Apr
 PATENT INFORMATION:
APPLICATION INFO.:
RELATED APPLN. INFO.:
                                                                               Utility
Granted
Max, Robert A.
Longton, Enrique D.
Leitereg, Theodore J, Ruszala, Lois K.
18
 DOCUMENT TYPE:
PILE SEGMENT:
PRIMARY EXAMINER:
ASSISTANT EXAMINER:
ASSISTANT EAGHTAIVE:
NUMBER OF CLAIMS:
EXEMPLARY CLAIM:
NUMBER OF DRAWINGS:
                                                                                 16 Drawing Pigure(s); 16 Drawing Page(s)
LINE COUNT: 3755

AS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to methods for immunoassay of analytes employing mutant glucose-6-phosphate dehydrogenase (G6PDH) enzymes as labels. In particular, the invention relates to the use of conjugates
                      an analyte or analyte analog and a mutant NAD.sup.+ dependent G6PDH differing from any precursor G6PDH by the deletion, substitution, or insertion, or any combination thereof of at least one amino acid per subunit. The invention also involves the construction of several mutations in precursor glucose-6-phosphate dehydrogenase (G6PDH) enzymes. Pypically, the mutations involved eletion or substitution of one or more lysine residues, or introduction of one or more cysteine residues by insertion of cysteine to precursor G6PDH or substitution of precursor G6PDH amino acida residues with cysteine. The present invention also relates to conjugates of the subject enzymes and ic
specific binding pair members, kits useful in performing the methods of the invention, cell lines producing the subject enzymes, DNA sequences encoding the subject enzymes, and vectors containing DNA encoding the subject enzymes and designed to allow a host cell to produce the
subject
enzymes.

IT 59-30-3, Polic acid, analysis
(immunoanal. detn. of; homogeneous immunoassays using conjugates of
```

132:8490
Matal complexes derivatized with
folate for use in diagnostic and therapeutic
applications
Medeking, Paul M.; Wager, Ruth E.; Arunachalam,
Thangavel; Ramalingam, Kondareddiar; Linder, Karen

Rangemethen, Ramachandran S.; Nunn, Adrian D.; Raju, Natarajan; Tweedle, Michael F. Bracco International B.V., Neth. PCT int. Appl., 191 pp. CODEN: PIXXD2 Patent PATENT ASSIGNEE(S): SOURCE: DOCUMENT TYPE: LANGUAGE: English FAMILY ACC. NUM. COUNT: PATENT INFORMATION: PATENT NO. A2 19991125 A3 20000302 APPLICATION NO. DATE WO 9959640 WO 9959640 WO 1999-IB858 19990512 WO 9959640 A3 200003102
W: AU, CA, JP, NO, NZ
RW: AT, BE, CH, CY, DE, DK, ES, PI, FR, GB, GR, IE, IT, LU, MC, NL,
PT, SE
US 6093182 A 20000725 US 1998-80157 19980516
AU 9936225 A1 19991206 AU 1999-36225 19990512
EP 1077729 A2 20010228 EP 1999-918204 19990512
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, FI
JP 20025154624 T2 20020528 JP 2000-549103 19990512 JP 2000-5493.03 19990512
US 2000-477072 200000103
US 2000-752867 200001230
US 1998-80157 A 19980516
WO 1999-18858 W 19990512
US 2000-477072 A3 20000103 JP 2002515462 US 6221334 US 2001004454 T2 20020528 B1 20010424 A1 20010621 OTHER SOURCE(S): MARPAT 132:8490
AB Diagnostic and therspeutic compns. as complexes for enhancing transmembrane transport of a diagnostic or therspeutic agent and methods for their use are claimed. The complexes contain the .slpha., .gamma., bis isomers of folate receptor-binding analogs of folate, a matal chelated by a ligand, and in one embodiment, a chemotherapeutic agent. Thus, I and its Gd and 153Gd complexes were prepd. 251084-03-19 251084-03-19 251084-17-49 251084-03-19 251084-51-29 251084-97-29 251084-51-29 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (prepn. and reactant for prepn. of matal complexes for use in disgnostic and therepeutic applications) 251084-37-4 CAPLUS 1,4,7,10-Tetraazacyclododecane-1,4,7-triacetic acid, 10-{2-{[4-{{(4S)-4-[[4-[[(2-amino-1,4-dihydro-4-oxo-6-pteridinyl)methyl]amino]benzoyl]amino]-4-carboxy-1-oxobutyl]amino]phenyl]amino]-2-oxoethyl]- (GCI) (CA INDEX Absolute stereochemistry.

L24 ANSWER 33 OF 71 CAPLUS COPYRIGHT 2002 ACS ACCESSION NUMBER: 1999:753119 CAPLUS DOCUMENT NUMBER: 132:8490

DOCUMENT NUMBER: TITLE:

INVENTOR (S) : E.;

L24 ANSWER 32 OF 71 USPATFULL (Continued) analytes and substituted analogs of glucose-6-phosphate dehydrogenases) drogenases)
59-30-3 USPATPULL
L-Glutamic acid, N-{4-{{({2-amino-1,4-dihydro-4-oxo-6-pteridinyl)methyl]amino|benzoyl}- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L24 ANSWER 33 OF 71 CAPLUS COPYRIGHT 2002 ACS PAGE 1-A

PAGE 1-B

251084-40-9 CAPLUS 1,4,7,10-Tetraazacyclododecane-1,4,7-triacetic acid, 10-{2-{[4-[[(2S)-2-

-[{(2-amino-1,4-dihydro-4-oxo-6-pteridinyl)methyl}amino]benzoyl]amino]-4-carboxy-1-oxobutyl]amino]phenyl]amino]-2-oxoethyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A

$$\begin{array}{c|c} & & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & \\ & & & \\$$

L24 ANSWER 33 OF 71 CAPLUS COPYRIGHT 2002 ACS (Continued)

L24 ANSWER 33 OF 71 CAPLUS COPYRIGHT 2002 ACS (Continued)

PAGE 1-B

251084-43-2 CAPLUS 1,4,7,10-Tetraazacyclododecane-1,4,7-triacetic acid, 10,10'-[{{2S}-2-[{4-1}]}

{{(2-amino-1,4-dihydro-4-oxo-6-pteridinyl)methyl)amino}benzoyl}amino}-1,5-dioxo-1,5-pentanediyl}bis{imino-4,1-phenyleneimino{2-oxo-2,1-ethanediyl}}bis-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

L24 ANSWER 33 OF 71 CAPLUS COPYRIGHT 2002 ACS (Continued)

PAGE 1-B

251084-50-1 CAPLUS
Technetate(1-)-99Tc, [(4S)-4-[[4-[[(2-amino-1,4-dihydro-4-oxo-6-pteriddinyl)methyl]amino]benzoyl]aminoj-9,17-bis(hydroxyimino-.kappa.N)-10,10,16,16-tetramethyl-5-oxo-14-oxa-6,11,15-triazaoctadecanoato[4-)]-,hydrogen, (SP-5-15)- (9CI) (CA INDEX NAME)

PAGE 1-A

251084-49-8 CAPLUS
5-OXa-4,8,13-triazaoctadecan-18-oic acid,
[4-{[(2-amino-1,4-dihydro-4oxo-6-pteridinyl)nechyl]amino|benzoyl]amino|-2,10-bis(hydroxyimino)3,3,9,9-tetramethyl-14-oxo-, (15S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.

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L24 ANSWER 33 OF 71 CAPLUS COPYRIGHT 2002 ACS

PAGE 2-A

Absolute stereochemistry. Double bond geometry unknown.

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L24 ANSWER 33 OF 71 CAPLUS COPYRIGHT 2002 ACS (Continued)

PAGE 1-B

251084-38-5P 251084-39-6P 251084-41-0P 251084-42-1P 251084-44-3P 251084-45-4P 251084-52-3P

tetraazacyclododecane-1,4,7-triacetato(4-)-.kappa.N1,.kappa.N4,.kappa.N7,.kappa.N10,.kappa.O1,.kappa.O4,.kappa.O7]-, sodium (9CI) (CA INDEX NAME)

PAGE 1-A

L24 ANSWER 33 OF 71 CAPLUS COPYRIGHT 2002 ACS (Continued)

PAGE 1-B

251084-41-0 CAPLUS Gadolinate(1-), [10-[2-[[4-[[2-[4-[[(2-amino-1,4-dihydro-4-oxo-6-pteridiny])methyl]amino]benzoyl]amino]-4-carboxy-1-oxobutyl]amino]phenyl]amino]-2-(oxo-.kappa.0)ethyl]-1,4,7,10-

tetraazacyclododecane-1,4,7-triacetato(4-)-.kappa.N1,.kappa.N4,.kappa.N7,. kappa.N10,.kappa.O1,.kappa.O4,.kappa.O7]-, sodium (9CI) (CA INDEX NAME)

PAGE 1-A

● Na+

PAGE 1-B

L24 ANSWER 33 OF 71 CAPLUS COPYRIGHT 2002 ACS (Continued)

PAGE 1-B

251084-39-6 CAPLUS Gadolinate(1-)-153Gd, [10-{2-{[4-[{4-{{(2-mino-1,4-dihydro-4-oxo-6-pteridinyl}methyl]amino]benzoyl]amino]-4-carboxy-1-oxobutyl]amino]phenyl}amino]-2-(oxo-.kappa.0)ethyl}-1,4,7,10-

tetraazacyclododecane-1,4,7-triacetato{4-}-.kappa.N1,.kappa.N4,.kappa.N7,.kappa.N10,.kappa.O1,.kappa.O4,.kappa.O7}-, aodium {9CI} {CA INDEX NAME}

L24 ANSWER 33 OF 71 CAPLUS COPYRIGHT 2002 ACS (Continued)

251084-42-1 CAPLUS Gadolinate(1-)-1530d, [10-[2-[[4-[[2-[4-[[2-mino-1,4-dihydro-4-oxo-6-pteridinyl]methyl]amino]benzoyl]amino]-4-carboxy-1-oxobutyl]amino]phenyl]amino]-2-(oxo-.kappa.0)ethyl}-1,4,7,10-

tetraazscyclododecane-1,4,7-triacetato(4-)-.kappa.N1,.kappa.N4,.kappa.N7,.kappa.N10,.kappa.O1,.kappa.O4,.kappa.O7]-, sodium (9CI) (CA INDEX NAME)

PAGE 1-A

PAGE 1-B

$$-_{\mathrm{NH-CH_{2}}} \underbrace{-_{\mathrm{NH-NH_{2}}}^{\mathrm{N}}}_{\mathrm{NH_{2}}}^{\mathrm{N}}$$

251084-44-3 CAPLUS Gadolinium, {.mu.-[[10,10'-{{2-[[4-{[(2-amino-1,4-dihydro-4-oxo-6-

pteridinyl)methyljamino|benzoyl|amino|-1,5-dioxo-1,5-pentanediyl|bis[imino-4,1-phenyleneimino[2-(oxo-.kappa.O)-2,1-ethanediyl]]bis[1,4,7,10-

tetraazacyclododecane-1,4,7-triacetato-.kappa.N1,.kappa.N4,.kappa.N7,.kappa.N10,.kappa.01,.kappa.04,.kappa.07]](6-)]]di- (9CI) (CA INDEX NAME)

L24 ANSWER 33 OF 71 CAPLUS COPYRIGHT 2002 ACS (Continued)

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L24 ANSWER 33 OF 71 CAPLUS COPYRIGHT 2002 ACS (Continued)

PAGE 1-A

PAGE 1-B

L24 ANSWER 33 OF 71 CAPLUS COPYRIGHT 2002 ACS (Continued)

PAGE 2-B

RN 251084-45-4 CAPLUS
CN Gadolinium-153Gd, [.mu.-[{10,10'-[[2-{{4-[[(2-amino-1,4-dihydro-4-oxo-6-

pteridinyl)methyl]amino)benzoyl]amino]-1,5-dioxo-1,5-pentanediyl]bis[imino-4,1-phenyleneimino[2-(oxo-.kappa.0)-2,1-ethanediyl]]bis[1,4,7,10-

tetraazacyclododecane-1,4,7-triacetato-.kappa.N1,.kappa.N4,.kappa.N7,.kappa.N10,.kappa.O1,.kappa.O4,.kappa.O7]][6-]]]di- [9CI] (CA INDEX NAME)

L24 ANSWER 33 OF 71 CAPLUS COPYRIGHT 2002 ACS (Continued)

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L24 ANSWER 33 OF 71 CAPLUS COPYRIGHT 2002 ACS (Continued) L24 ANSWER 33 OF 71 CAPLUS COPYRIGHT 2002 ACS (Continued)

PAGE 1-A

PAGE 3-A

251084-56-7P 251084-60-3P 251084-64-7P
251084-76-1P 251084-80-7P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(Reactant for prepn. of matal complexes for use in diagnostic and therapeutic applications)

L24 ANSMER 33 OF 71 CAPLUS COPYRIGHT 2002 ACS (Continued) RN 251084-5-7 CAPLUS COPYRIGHT 2002 ACS (CONTINUED) RN 251084-5-

[[4-[[(2-amino-1,4-dihydro-4-oxo-6-pteridiny1]methy1]amino]benzoy1]amino]-5-[1,1-dimethylethoxy]-1,5-dioxopenty1[amino]pheny1[amino]-2-oxoethy1]-, tris[1,1-dimethylethy1] eater [907] (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A

PAGE 1-B

251084-60-3 CAPLUS 1,4,7,10-Tetraazacyclododecane-1,4,7-triacetic acid, 10-[2-[[4-{[(2S)-2-

[[4-[[(2-amino-1,4-dihydro-4-oxo-6-pteridinyl)methyl]amino]benzoyl]amino]5-(1,1-dimethylethoxy)-1,5-dioxopentyl]amino]phenyl]amino]-2-oxoethyl)-,
tris(1,1-dimethylethyl) ester (9CI) {CA INDEX NAME}

Absolute stereochemistry.

L24 ANSWER 33 OF 71 CAPLUS COPYRIGHT 2002 ACS

PAGE 1-A

PAGE 1-B

251084-64-7 CAPLUS 1,4,7,10-Tetrsazscyclododecane-1,4,7-triacetic acid, 10,10'-{[(2S)-2-{(4-

[[(2-amino-1,4-dihydro-4-oxo-6-pteridinyl)methyl]amino]benzoyl]amino]-1,5-dioxo-1,5-pentanediyl]bia[imino-4,1-phenyleneimino(2-oxo-2,1-ethanediyl)]bia-, hexakia(1,1-dimethylethyl) eater (9CI) (CA INDEX NAME)

PAGE 2-B

L24 ANSWER 33 OF 71 CAPLUS COPYRIGHT 2002 ACS (Continued)

PAGE 1-B

L24 ANSMER 33 OF 71 CAPLUS COPYRIGHT 2002 ACS (Continued)
CN 5-0xa-4,8,13-triazaoctadecan-18-oic acid,
17-{[4-[[2-amino-1,4-dihydro-4-oxo-6-pteridinyl}methyl]amino|benzoyl]amino|-2,10-bis{hydroxyimino}-3,3,9,9-tetramethyl-14-oxo-, 1,1-dimethylethyl ester, (17S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.

L24 ANSWER 33 OF 71 CAPLUS COPYRIGHT 2002 ACS (Continued)

RN 251084-76-1 CAPLUS
CN 5-0Xa-4.8,13-triazaoctadecan-18-oic acid,
15-[(4-[(2-amino-1,4-dihydro-4-oxo-6-pteridinyl)methyl]amino]benzoyl]amino]-2,10-bis(hydroxyimino)-3,3,9,9-tetramethyl-14-oxo-, 1,1-dimethylethyl ester, (15S)- (9CI) (CA INDEX RAME)

Absolute stereochemistry.
Double bond geometry unknown

251084-80-7 CAPLUS

L24 ANSWER 34 OF 71

ACCESSION NUMBER:

TITLE:

INVENTOR(S):

Pomato, Nicholas, Prederick, MD, United States

McCabe, Richard P., West Chester, PA, United States

Hawkins, Gregory A., Madison, WI, United States

Bredehorst, Reinhard, Hamburg, Germany, Pederal

Republic of

Kim, Chong-Ho, Rockville, MD, United States

Vogel, Carl-Wilhelm, Hamburg, Germany, Pederal

Republic

of PerImmune Holdings, Inc., Rockville, MD, United States (U.S. corporation) PATENT ASSIGNEE (S):

NUMBER KIND DATE

US 5955106 19991012
US 1995-461267 19950605 (8)
Continuation-in-part of Ser. No. US 1993-140186, filed on 4 Nov 1993, now patented, Pat. No. US 5578289 which is a continuation-in-part of Ser. No. US 1992-846453, filed on 4 Mar 1992, now abandoned Utility Granted Green, Lora M. Gormley, Mary E. 2 PATENT INFORMATION: APPLICATION INFO.: RELATED APPLN. INFO.:

is a continuation-in-part of Ser. No. US 1992-846933,
filed on 4 Mar 1992, now abandoned

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
FRIMARY EXAMINER: Green, Lora M.
LEGAL REPRESENTATIVE: Gormley, Mary E.
NUMBER OF CLAIMS: 2
EXEMPLARY CLAIM: 1

NUMBER OF DATA SERVICE OF THE SERVICE OF THE

L24 ANSWER 34 OF 71 USPATFULL (Continued)

PAGE 1-A

PAGE 1-B

246154-65-4 USPATFULL
Methanesulfonic acid, {{(2s)-2-{{4-{[(2,4-diamino-6-pteridiny}] methyl|methylemino|benzoyl}amino|-1,5-dioxo-1,5-pentanediyl|diimino|bis- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

246154-67-6 USPATFULL 3,5,7,10,14,17,19,21-Octaazatricosanedioic acid, 12-[[4-{[[2-{(4S)-4-

L24 ANSWER 34 OF 71 USPATFULL (Continued)

PAGE 2-A

IT 59-05-2DP, Methotrexate, conjugates 43170-88-3P
77410-28-7P
(in vivo binding pair pretargeting with antibodies and methotrexate analogs)
RN 59-05-2 USPATFULL
CN L-Olutamic acid,
N-[4-[[(2.4-diamino-6-pteridinyl)methyl]methylamino|benzo
y1|- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 43170-88-3 USPATFULL
CN L-Glutamic acid,
N-[4-[(2,4-diamino-6-pteridinyl]methyl]methylamino]benzo
yl]-, diethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry

RN 77410-28-7 USPATFULL
CN L-Glutamic acid,
N-[4-[{(2,4-diamino-6-pteridinyl)methyl]methylamino]benzo
yl]-, dihydrazide (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L24 ANSWER 34 OF 71 USPATFULL (Continued)

Absolute stereochemistry.

PAGE 1-A но2С-

но2С-

PAGE 1-B

L24 ANSWER 34 OF 71 USPATFULL (Continued)

IT 79640-69-0

(in vivo binding pair pretargeting with antibodies and methotrexate analogs)

RN 79640-69-0 USPATPULL

CN L-Glutamic acid,
N-(4-[[2,4-diamino-6-pteridinyl)methyl]methylamino]benzo

yl]-, 1-(1,1-dimethylethyl) ester, 5-hydrazide (9CI) (CA INDEX NAME)

Absolute stereochemistry.

IT 59-05-2, Methotrexate
(in vivo binding pair pretargeting with antibodies and methotrexate analogs)
RN 59-05-2 USPATFULL
CL L-Glutamic acid,
N-[4-{{(2,4-diamino-6-pteridinyl)methyl]methylamino}benzo
yl]- (9CI) (CA INDEX NAME)

L24 ANSWER 34 OF 71 USPATFULL (Continued)

L24 ANSWER 35 OF 71 USPATFULL (Continued)

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L14 ANSWER 15 OF 71

ACCESSION NUMBER: 1999:92583 USPATFULL

ITITLE: Preparation of sub 100 A magnetic particles and magnetic molecular switches

INVENTOR(S): Chagnon, Mark S., Pelham, NH, United States
Chagnon, Mark S., Pelham, NH, United States
Carter, Richelle J., Derry, NH, United States
Carter, Richelle J., Derry, NH, United States
Gray, Maria A., Derry, NH,
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L24 ANSWER 16 OF 71 USPATFULL

ACCESSION NUMBER: 1999:65058 USPATFULL

Amphiphilic linkers for coupling administrable diagnostically or physiologically active agents and bioselective targeting compounds

TOURNITOR(S): TOURNIER, Valleiry, France Pochon, Sibylle, Geneva, Switzerland Lamy, Bernard, Geneva, Switzerland Lamy, Bernard, Geneva, Switzerland (non-U.S. corporation)

**NUMBER** KIND DATE**

PATENT INFORMATION: US 5910300 1996008

APPLICATION INFO.: US 1996-740620 19961031 (8)

**NUMBER** DATE**

PRIORITY INFORMATION: EP 1995-810689 19951101

DOCUMENT TYPE: Utility

FILE SEGMENT: Granted

Dess. Jose' G.

ASSISTANT EXAMINER: Jones, Dameron

NUMBER OF CLAIMS: 23

EXEMPLARY CLAIM: 10 Jones, Dameron

NUMBER OF CLAIMS: 23

EXEMPLARY CLAIM: 1 128

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Administrable factors or compositions to be directed to specific sites in the body of human and animal patients which comprise a medically and/or diagnostically effective moiety (I) and, coupled thereto by means

of a linker (L), a substance (II) having specific affinity for specific sites in the organism.

Linker "L" has a structure schematized by the formula:

Y(W-Z-R).sub.m, m being 1, 2, or 4

wherein the portion YN is an amphiphile, i.e. a segment comprised of a hydrophobic-lipophilic sequence "Y" and a hydrophilic-lipophobic sequence "M" connected covalently together, Z is a chemical bond or an intermediate connector sequence and R is a reactive function for effecting coupling with selected substances (II)

IT 59-30-3 USPAFFULL

IT 59-30-3 USPAFFULL

NEON TO THE ADDRESSION TAME)
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09/752,867 Page 61

L24 ANSWER 36 OF 71 USPATFULL (Continued)

L24 ANSWER 37 OF 71 USPATFULL (Continued)

L24 ANSWER 37 OF 71 USPATFULL ACCESSION NUMBER: 1998:154 TITLE: Unit do 1998:156957 USPATFULL Unit dosage forms for treatment of vasoconstriction related conditions Richardson, Kenneth T., Anchorage, AK, United States Pearson, Don C., Tacoma, MA, United States ChronoRX LLC, Anchorage, AK, United States (U.S. corporation) INVENTOR(S): PATENT ASSIGNER(S): NUMBER KIND DATE US 5849338 19981215

MO 9737670 19971016

US 1997-849068 19970826 (a)

MO 1997-US4286 19970318
19970826 PCT 371 date
19970826 PCT 102(e) date

Continuation-in-part of Ser. No. US 1996-753967, filed on 4 Dec 1996, now abandoned PATENT INFORMATION: APPLICATION INFO . RELATED APPLN. INFO.: NUMBER DATE PRIORITY INFORMATION: US 1996-15115P 19960410 (60)

DOCUMENT TYPE: Utility
FILE SECMENT: Granted
FRIMARY EXAMINER: Jordan, Kimberly

LEGAL REPRESENTATIVE: Townsend and Townsend and Crew LLP

NUMBER OF CLAIMS: 22

EXEMPLARY CLAIM: 1

LINE COUNT: 881

LINE COUNT: 881

AB Magnesium is formulated in combination with vitamin E, vitamin C, folate, selenium, and optionally melatonin in a unit domage form for oral administration, for the treatment of vanoconstriction and the physiological and pathological conditions giving rise to vanoconstriction. These active agents complement each other in suppressing these conditions, using a variety of mechanisms operating in suppressing these conditions, using a variety of mechanisms operating in conjunction with one another. The inclusion of magnesium in a plurality of forms provides additional advantages in terms of controlling and sustaining the release of magnesium in locations along the digestive tract where the magnesium will have its greatest effectiveness as a therapeutic agent, thus improving control over thee clinical bioavailability of magnesium and in improving the selection of appropriate therapeutic ranges.

IT 59-30-3, Folic acid, biological studies
(vitamin E and magnesium in unit dosage forms for treatment of vasoconstriction)

RN 59-30-3 USPATPULL
CN L-Glutamic acid, N-{4-{((2-amino-1,4-dihydro-4-oxo-6-pteridinyl)methyl]amino]benzoyl]- (9CI) (CA INDEX NAME)

L24 ANSWER 38 OF 71 USPATFULL ACCESSION NUMBER: 1998:11: TITLE: In vivo SPATFULL
1998:111628 USPATFULL
In vivo binding pair pretargeting
Pomato, Nicholas, Prederick, MD, United States
McCabe, Richard P., Mest Chester, PA, United States
Hawkins, Gregory Alan, Hastings, NE, United States
Bredehorst, Reinhard, Hamburg, Germany, Federal
Republic of
Kim, Chong-Ho, Rockville, MA, United States
Vogel, Carl-Wilhelm Ernst, Hamburg, Germany, Federal
Republic of
Akzo Nobel N.V., Arnhem, Netherlands (non-U.S.
corporation) INVENTOR (S): PATENT ASSIGNEE(S): NUMBER KIND DATE

US 5807514 19980915
US 1995-452938 19950530 (8)
Continuation of Ser. No. US 1993-140186, filed on 4 PATENT INFORMATION: APPLICATION INFO.: RELATED APPLN. INFO.: NOV 1993, now patented, Pat. No. US 5578289 which is a continuation-in-part of Ser. No. US 1992-846453, filed on 4 Mar 1992, now abandoned Utility Granted Green, Lora M. Musto. Neal A. Gormley, Mary E. 11 continuation-in-part of Ser. No. US 1992-846453, filed on 4 Mar 1992, now abandoned Utility
FILE SEGMENT: Granted
FRIMARY EXAMINER: Green, Lora M.
ASSISTANT EXAMINER: Green, Lora M.
ASSISTANT EXAMINER: Green, Lora M.
MUSTON, Neal A.
LEGGAL REPRESENTATIVE: Gormley, Mary E.
NUMBER OF CLAIMS: 11
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 14 Drawing Figure(s); 13 Drawing Page(s)
LINE COUNT: 1022
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB A method for in-vivo targeting a functional moiety in a patient by administering a targeting moiety coupled to an affinity component, wherein the targeting moiety coupled to an affinity component coupled to a functional moiety in a target area, and administering a binding partner to the affinity component coupled to a functional moiety to localize the functional moiety in the target area. Preferably the targeting moiety is an antibody and the functional moiety is a radiometal when performing in vivo imaging or therapy. The affinity component may be a novel methotrexate analog.
IT 151395-94-7DP, complexes with indium-111 151395-94-7DP (prepn. and site-specific delivery of, with dihydrofolate reductase-monoclonal antibody conjugate)
RN 151395-94-7D (SPETPULL CN 3,6,9,12,13-Pentazazoctadecanedioic acid, 3,6,9-trais(carboxymethyl)-17-[14-[[(4,4-diamino-6-pteridinyl) methyl]methylamino]benzoyl]amino]-11,14-dioxo-, [175]- (SCI) (CA INDEX NAME)
Absolute stereochemistry.

Absolute stereochemistry.

PAGE 1-B

L24 ANSWER 38 OF 71 USPATFULL (Continued)

PAGE 1-B

RN 151395-94-7 USPATPULL
CN 3,6,9,12,13-Pentaazaoctadecanedioic acid,
3,6,9-tris(carboxymethyl)-17-[[4[(2.4-diamino-6-pteridinyl)methyl]methylamino|benzoyl|amino|-11,14dioxo-, (178)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A

L24 ANSWER 38 OF 71 USPATFULL (Continued) L24 ANSWER 38 OF 71 USPATFULL (Continued)

IT 79640-69-0

(reaction of, with DTPA dianhydride)

RN 79640-69-0 USPATFULL

CN L-Glutamic acid,
N-[4-[[(2,4-diamino-6-pteridinyl]methyl]methylamino]benzo

yl]-, 1-(1,1-dimethylethyl) ester, 5-hydrazide (9CI) (CA INDEX NAME)

IT 59-05-2D, Methotrexate, conjugates with radiometal (site-specific delivery of, for imaging or therapy)
RN 59-05-2 USPATPULL
CN L-Olutamic acid.
N-[4-[[(2,4-diamino-6-pteridinyl)methyl]methylamino]benzo
yl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L24 ANSWER 39 OF 71 ACCESSION NUMBER: TITLE: USPATPULL

SPATFULL
1998:108278 USPATFULL
High affinity mutants of nuclear factor-interleukin 6
and methods of use therefor
Brasier, Allan R., Galveston, TX, United States
Board of Regents, The University of Texas System,
Austin, TX, United States (U.S. corporation)

INVENTOR(S): PATENT ASSIGNEE(S):

Austin, TX, United States (U.S. corporation)

NUMBER KIND DATE

PATENT INFORMATION: US 5804445 19980908
APPLICATION INFO: US 1996-585197 19960111 (8)
DOCUMENT TYPE: Utility
FILE SEGMENT: Robinson, Douglas W.
ASSISTANT EXAMINER: Robinson, Douglas W.
ASSISTANT EXAMINER: Arold, White & Durkee

NUMBER OF CLAIMS: 21
EXCMPLARY CLAIM: 19
NUMBER OF DRAWINGS: 17 Drawing Figure(s); 13 Drawing Page(s)
LINE COUNT: 2246

CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB The present invention relates to inhibitors of the sequence specific transcription factor nuclear factor IL-6 (NF-IL6) and methods of use therefor. In particular, substitution mutants in the N-terminus of the NF-IL6 tryptic core domain are disclosed that have a higher binding affinity for the DNA binding site than does the wild-type sequence.

IT 59-30-30, JORATULL

CN L-Glutamic acid, N-[4-[(2-amino-1,4-dihydro-4-oxo-6-pteridinyl) machen levels and served and s

L24 ANSWER 40 OF 71 USPATFULL ACCESSION NUMBER: 1998:75570 USPATFULL

TITLE: INVENTOR(S):

1998:755/0 UPATFULI.
Treatment of toxoplasmosis
el Kouni, Mahmoud H., Birmingham, AL, United States
Guarcello, Vincent, Birmingham, AL, United States
Naguib, Fardos N. M., Birmingham, AL, United States
Research Corporation Technologies, Inc., Tucson, AZ,
United States (U.S. corporation) PATENT ASSIGNEE(S):

NUMBER KIND DATE
US 5773424 19980633
US 1994-158195 19941210
Utility
Granted
Wilson, James O.
Scully, Scott, Murphy & Presser 7. PATENT INFORMATION: 19980630 19941216 (8) APPLICATION INFO.: DOCUMENT TYPE: FILE SEGMENT:

PILE SEGMENT:
PRIMARY EXAMINER:
LEGAL REPRESENTATIVE:
NUMBER OF CLAIMS:
EXEMPLARY CLAIM:
LINE COUNT:

R.sub.4 is H, OH, or a halogen; and

R.sub.5 is CH.sub.3, CF.sub.3, CH.sub.2 OH, or CH.sub.2 OY and Y is a carbon ester or phosphorus; and

a pharmaceutically acceptable carrier.

IT 59-05-2, Methotrexate (purine nucleoside analogs for treatment of toxoplasmosis)

RN 59-05-2 USPATFULL

CN L-Glutamic acid,

N-[4-[[2,-4-diamino-6-pteridinyl]methyl]methylamino]benzo
 yl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L24 ANSWER 41 OF 71 USPATFULL (Continued)

Absolute stereochemistry.

L24 ANSWER 41 0F 71 USPATFULL
ACCESSION NUMBER: 97:106781 USPATFULL
TITLE: Composition and method for tumor imaging
Low, Philip Stewart, West Lafayette, IN, United States
Heinstein, Peter Frederick, West Lafayette, IN, United
States
PATENT ASSIGNEE(S): Purdue Research Foundation, West Lafayette, IN, United
States (U.S. corporation)

PATENT INFORMATION: APPLICATION INFO.: RELATED APPLN. INFO.:

NUMBER KIND DATE

S 5688488 19971118
US 1995-442174 19950516 (8)
Continuation-in-part of Ser. No. US 1994-349407, filed on 5 Dec 1994 which is a continuation of Ser. No. US 1992-851544, filed on 13 Mar 1992, now patented, Pat. No. US 5416016 which is a continuation of Ser. No. US 1990-438762, filed on 28 Mar 1990, now patented, Pat. No. US 108921 which is a continuation-in-part of Ser. No. US 1989-331816, filed on 3 Apr 1989, now abandoned Utility Granted Hollinden, Gary E. Hartley, Michael G. Barnes & Thornburg 12

No. US \$108921 which is a continuation-in-part of Ser.
No. US \$1089-331816, filed on 3 Apr 1989, now abandoned
Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Hollinden, Gary E.
ASSISTANT EXAMINER: Hartley, Nichael G.
LERAL REPRESENTATIVE: Barnes & Thornburg
NUMBER OF CLAIMS: 12
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 9 Drawing Pigure(a); 9 Drawing Page(a)
LINE COUNT: 1891
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB A method is provided for enhancing transmembrane transport of a
diagnostic agent across a membrane of a living cell with a complex formed
between,said diagnostic agent and ligands selected from biotin
or biotin receptor-binding analogs of biotin, folate or
folate receptor-binding analogs of folate, riboflavin
or riboflavin receptor-binding analogs of folate, riboflavin
complex. The method is used for imaging tissues in vivo.
IT 10110-72-69
(diagnostic agent. ligand complex in compn. and method for tumor
imaging, and prepn. thereof)
RN 170170-72-6 USPATPULL
CN L-Glucamine, N2-[4-[((2-amino-1,4-dihydro-4-oxo-6pteridinyl)maino]benzoyl-N-(6,17,28-trihydroxy-7,10,18,21,29pentaoxo-6,11,17,22,28-pentaazatriacont-1-yl)- (9CI) (CA INDEX NAME)
Absolute stereochemistry.

Absolute stereochemistry.

L24 ANSWER 41 OF 71 USPATFULL (Continued)

IT 170170-73-79

Absolute stereochemistry.

PAGE 1-B

IT 59-30-1D, diagnostic agent complexes
(diagnostic agent-ligand complex in compn. and method for tumor imaging, and prepn. thereof)
SP 39-30-3 USPATPULL
CN L-Glutamic acid, N-{4-[[(2-amino-1,4-dihydro-4-oxo-6-pteridinyl)methyl]amino]benzoyl]- (9CI) (CA INDEX NAME)

L24 ANSWER 41 OF 71 USPATFULL (Continued)

L24 ANSMER 42 OF 71 USPATFULL (Continued)
RN 59-30-3 USPATFULL
CN L-Glutamic acid, N-[4-{{(2-amino-1,4-dihydro-4-oxo-6-pteridinyl)methyl]amino]benzoyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

196080-96-3 USPATFULL L-Cysteinamide, N-[4-[[{2-amino-1,4-dihydro-4-oxo-6-

pteridinyl)methyl|amino|benzoyl|-L-.alpha.-glutamyl-N-[2-{[3,5-dimethyl-4-[[(10-methylacridinium-9-yl]carbonyl]oxylbenzoyl]amino|ethyl}-S-{3-sulfopropyl}-, bromide {9CI} (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A

L24 ANSWER 42 OF 71 USPATFULL
ACCESSION NUMBER: 97:78345 USPATFULL,
TITLE: Nucleophilic polysubstituted aryl acridinium ester
conjugates and syntheses thereof
LAW, Say-Jong, Mestwood, MA, United States
Chiron Diagnostics Corporation, Malpole, MA, United
States (U.S. corporation)

NUMBER KIND DATE

US 5663074 19970902
US 1993-32947 19930317 (8)
Continuation-in-part of Ser. No. US 1992-871601, filed on 17 Apr 1992 which is a continuation of Ser. No. US 1988-249620, filed on 26 Sep 1988, now abandoned Utility
Granted
Woodward, Michael P.
Morgenstern, Arthur S., Blackburn, Robert P., Klee, Maurice M.
53

DOCUMENT TYPE: FILE SEGMENT: PRIMARY EXAMINER: LEGAL REPRESENTATIVE:

Maurice M.

NUMBER OF CLAIMS: 53
EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 18 Drawing Figure(s); 15 Drawing Page(s)

LINE COUNT: 1554

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB This invention is directed to novel nucleophilic polysubstituted aryl acridinium conjugates and the methods for preparation thereof. The novel

novel
nucleophilic polysubstituted aryl acridinium conjugates are useful in
biological assays, including novel assays for the determination of
Vitamin B.sub.12, folate, cortisol, estradiol, and thromboxane
B.sub.2.

IT 59-10-3, Folic acid, analysis
(nucleophilic polysubstituted aryl acridinium ester conjugates prepn.
as labels for binding assays)

RN 59-30-3 USPATPULD.
CN L-Glutamic acid, N-[4-[[(2-amino-1,4-dihydro-4-oxo-6pteridinyl)methyl]amino]benzoyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

IT 59-30-3DP, Polic acid, acridinium ester conjugates 196080-96-3P

16080-96-19 (nucleophilic polysubstituted aryl acridinium ester conjugates prepn. as labela for binding assays)

L24 ANSWER 42 OF 71 USPATFULL (Continued)

PAGE 1-B

L24 ANSWER 43 OF 71 USPATFULL
ACCESSION NUMBER: 97:36172 USPATFULL
TITLE: Method of treating HIV infection and related secondary infections with defibrotide
INVENTOR(S): Burcoglu, Arsimur, 213 Sweetgum Rd., Pittsburg, PA,
United States 15238
Magner, Marc, 4201 Greensburg Pike, Pittsburg, PA,
United States 15221

CHER KIND DATE NUMBER

PATENT INFORMATION:

US 5524912 19970429 US 1994-185416 19940124 (8) Continuation-in-part of Ser. No. US 1991-748277, filed on 21 Aug 1991, now abandoned And Ser. No. US 1993-2395, filed on 13 Jan 1993, now abandoned APPLICATION INFO.: RELATED APPLN. INFO.:

DOCUMENT TYPE: Utility Granted

DOCUMENT TYPE:
FILE SEGMENT:
PRIMARY EXAMINER:
LEGAL REPRESENTATIVE:
NUMBER OF CLAIMS:
NUMBER OF DRAWINGS: Crouch, Deborah Banner & Witcoff, Ltd.

EXEMPLARY CLAIM: 1
NUMEER OF DRAWINGS: 8 Drawing Figure(s); 6 Drawing Page(s)
LINE COUNT: 2148
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB Oligonucleotides, polynucleotides and derivatives thereof, such as defibrotide, are agents of genetic modulation at the levels of transcription, translation, secondary messengers and cellular signal transduction systems. Such agents can be used to treat RIV infection. Preferably, treatment involves modifying the dose of such agents in response to observed fluctuations (e.g., increase, decrease, appearance,

disappearance) in normal, disease and repair markers.

59-30-3, Folic acid, biological studies

(folate endocytic pathway; defibrotide or other oligo- or
polynucleotides for treating HIV infection and related secondary
infections, and dose modification with marker fluctuation)

59-30-3 USPATFULL
L-Glutamic acid, N-[4-[[(2-amino-1,4-dihydro-4-oxo-6pteridinyl)methyl}amino|benzoyl}- (9CI) (CA INDEX NAME)

L24 ANSWER 44 OF 71 USPATFULL (Continued)

PAGE 1-B

IT 154294-66-3P

IT 154394-66-3P

(prepn. of, as drug-chem. modifier conjugate through physiol.

cleavable

linkage, for enhanced drug transport across membranes)

RN 154394-66-3 USPATFULL

CN L-Glutamic acid,

N-[4-[{(2,4-diamino-6-pteridinyl)methyl]methylamino|benzo
yl]-, bis[2-(trimethylammonio]ethyl] ester, dibromide (9CI) (CA INDEX

NAME)

Absolute stereochemistry.

L24 ANSMER 44 OF 71 USPATFULL
ACCESSION NUMBER: 97:17918 USPATFULL
TITLE: Compositions and met
INVENTOR(S): Hale, Ron L., Woodsi

97:17918 USPATFULL
Compositions and methods for enhanced drug delivery
Hale, Rom L., Moodside, CA, United States
Lu, Amy, Los Altos, CA, United States
Solas, Dennie, San Francisco, CA, United States
Solias, Dennie, San Francisco, CA, United States
Solick, Harold E., Belmont, CA, United States
Oldenburg, Kevin R., Fremont, CA, United States
Zaffaroni, Alejandro C., Atherton, CA, United States
Affymax Technologies N.V., Middlesex, England

PATENT ASSIGNEE(S): (non-U.S.

And

corporation)

PATENT INFORMATION: APPLICATION INFO.: RELATED APPLN. INFO.:

NUMBER KIND DATE

US 5607691 19970304
US 1995-449188 19950524 (8)
Continuation of Ser. No. US 1993-164293, filed on 9

1993, now abandoned which is a continuation-in-part of Ser. No. US 1993-77296, filed on 14 Jun 1993, now abandoned which is a continuation-in-part of Ser. No. US 1992-998219, filed on 12 Jun 1992, now abandoned

a continuation-in-part of Ser. No. US 1993-9463, filed on 27 Jan 1993, now abandoned

DOCUMENT TYPE: FILE SEGMENT:

On 27 Jan 1555, MUTILITY
Granted
Levy, Neil S.
Stevens, Lauren L. FILE SEGRENT:
PRIMARY EXAMINER:
LEGAL REPRESENTATIVE:
NUMBER OF CLAIMS:
EXEMPLARY CLAIM:

IT 154294-67-4P

(prepn. and reaction of, in prepn. of drug-chem. modifier conjugate through physiol. cleaveble bond for enhanced drug transport across membranes)

RN 154294-67-4 USPATFULL

CN L-Glutamic acid,
N-{4-{{{2,-4-diamino-6-pteridinyl}methyl}methylamino}benzo
yl]-, bis{2-{trimethylammonio}ethyl} ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L24 ANSWER 44 OF 71 USPATFULL (Continued)

PAGE 1-B

_N+Me3

IT 59-05-2, Methotrexate
(reaction of, in prepn. of drug-chem. modifier conjugate through
physiol. cleavable bond for enhanced drug transport across membranes)
RN 59-05-2 USPATFULL

NN 59-05-2 USPATFULL
CN L-Glutamic acid,
N-[4-[[(2,4-diamino-6-pteridinyl)methyl]methylamino]benzo
yl]- (9CI) (CA INDEX NAME)

L24 ANSWER 45 OF 71 ACCESSION NUMBER:

DOCUMENT NUMBER:

1 MEDLINE DUPLICATE 1
97467986 MEDLINE 97467986 PubMed ID: 9327130
Design and synthesis of {1111n}DTPA-folate for use as a tumor-targeted rediopharmaccutical.
Wang S; Luo J; Lantrip D A; Waters D J; Mathias C J; Green M A; Puchs P L; Low P S
Department of Chemistry, Purdue University, West AUTHOR:

CORPORATE SOURCE:

Lafayette.

CONTRACT NUMBER:

SOURCE :

PUB. COUNTRY:

LANGUAGE: FILE SEGMENT: ENTRY MONTH: ENTRY DATE:

M A; Puchs P L; Low P S

PORATE SOURCE: Department of Chemistry, Purdue University, Mest

Nyette.

Indiana 47907, USA.

RRACT NUMBER: P10-CA23168 (NCI)

ROI-CA70845 (NCI)

ROI-CA70845 (NCI)

ROE: BIOCONJUKATE CHEMISTRY, (1997 Sep-Oct) 8 (5) 673-9.

JOURNAL code: 9010319. ISSN: 1043-1802.

COUNTRY: United States

JOURNAL ARTICLE;

UNAGE: English

Z SEGMENT: Priority Journals

RY MONTH: 199711

RY DATE: Entered STN: 19980109

Last Updated on STN: 19990129

Entered Medline: 19971128

Folata-conjugated matal chalates have been

proposed as potential imaging agents for cancers that overexpress

folate receptors. In a previous study, folic acid was linked

through its gamma-carboxyl group to deferoxamine (DP), and the

670s-labeled complex (1670a)DP-folate) was examined for in vivo

tumor targeting efficiency in athysic mice with a human tumor cell

implant. Although superb tumor-to-background contrast was obtained, slow

hepatobiliary clearance would compromise imaging of abdominal tumors such

as ovarian cancer. In the present study, folic acid was conjugated to an

alternative chalator, diethylenetriaminepentascetic acid (DTPA),

via an ethylenediamine spacer. The desired DTPA-folate (gamma)

regioisomer was synthesized by two different approaches, purified by

reversed phase column chromatography, and characterized mainly by

analytical HPLC, mass spectroscopy, and NNR. In cultured tumor cells,

uptake of (lillin)TPA-folate (gamma) was found to be specific

for folate receptor-bearing cells, and the kinetics of uptake

were similar to those of free folate and other folate

-conjugated molecules. In the normal rat, intravenously administered

(lillin)TPA-folate (gamma) was found to be rapidly excreted into

the urine, giving intestinal levels of radiotracer 10-fold lower than

those observed with (670a)DP-folate (gamma) at 4. In a

preliminary mouse imaging study, a folate receptor-positive KB

cell tumor was readily visualized by gamma scintigraphy 1 h following

intravenous administration of [1111n]DTPA-folate (

L24 ANSMER 46 OF 71 USPATFULL

ACCESSION NUMBER: 96:103664 USPATFULL

INVENTOR(S): 90:103664 USPATFULL

INVENTOR(S): However, Nicholas, Frederick, MD, United States Hawkins, Gregory A., Hastings, NE, United States Hawkins, Gregory A., Hastings, NE, United States Bredehorst, Reinhard, Hamburg, Germany, Federal Republic of Kim, Chong-Ho, Rockville, MD, United States Vogel, Carl-Wilhelm E., Hamburg, Germany, Federal Republic of Akzo N.V., Arnhem, Netherlands (non-U.S. corporation)

NUMBER
US 5578289
WO 9317707
US 1993-140186
WO 1993-US1858 KIND DATE NUMBER KIND DATE

US 5578289 19961126
W0 9317707 199310916
US 1993-140186 19931104 (8)
W0 1993-US1858 19930303
19931104 PCT 37:
19931104 PCT 10:
Continuation-in-part of Ser. No. US 1992On 4 Mar 1992, now abandoned
Utility
Granted
Ceperley, Mary E.
Blackstone, Milliam M., Gormley, Mary E. PATENT INFORMATION: APPLICATION INFO .:

PCT 371 date PCT 102(e) date US 1992-846453, filed RELATED APPLN. INFO.:

RELATED APPLN. INPO.: Continuation-in-part of Ser. No. US 1992-846453, filed on 4 Mar 1992, now abandoned

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted

CREPTLE SEGMENT: Granted

CREPTLE SEGMENT: Granted

CREPTLE SEGMENT: Granted

CREPTLE SEGMENT: CEPTLE STATEMENT STATEMENT.

LEGAL REPRESENTATIVE: Blackstone, Milliam M., Gormley, Mary E.

NUMBER OF CLAIMS: 11

EXEMPLARY CLAIM: 1

EXEMPLARY CLAIM: 1

LINE COUNT: 995

LINE COUNT: 995

LINE COUNT: 4

AB A method for in-vivo targeting a functional moiety in a patient by administering a targeting moiety coupled to an affinity component, wherein the targeting moiety has affinity for binding sites in a target area, and administering a binding partner to the affinity component coupled to a functional moiety has affinity for binding sites in a target area, and administering a binding partner to the affinity component coupled to a functional moiety to localize the functional moiety in the target area. Preferably the targeting moiety is an antibody and the functional moiety is a radiometal when performing in vivo imaging or therapy. The affinity component may be a novel methotrexate analogy.

IT 151395-94-70P, 111-In complexes

(binding pair pretargeting with targeting moiety-affinity component conjugate and affinity component binding partner-functional moiety conjugate prepn.)

PN 151395-94-7 USPATPULL

CN 3,6,9-t2;13-Pentasazoctadecanedioic acid, 3,6,9-tris(carboxymethyl)-17-[[4-[(1(4,4-diamino-6-pteridinyl) methyl) methylamino] benzoyl}amino]-11,14-dioxo-, [1735-961] (CA INDEX NAME)

Absolute stereochemistry.

Absolute stereochemistry.

L24 ANSWER 46 OF 71 USPATFULL (Continued)

PAGE 1-A

PAGE 1-B

IT 59-05-2D, Methotrexate, effector mol. conjugates
(binding pair pretargeting with targeting moiety-affinity component conjugate and affinity component binding partner-functional moiety conjugate, and conjugate prepn.)

RN 59-05-2 USPATULL
CN L-Glutamic acid,
N-[4-[[4,-diamino-6-pteridinyl)methyl)methylamino]benzo
yl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

IT 151395-94-7P

(prepn. and reaction; binding pair pretargeting with targeting moiety-affinity component conjugate and affinity component bir partner-functional moiety conjugate, and conjugate prepn.) 151395-94-7 USPATPULL

RN 15199-94-7 USPATFULL
CN 3,6,9,12,13-Pentaszaoctadecanedioic acid,
3,6,9-tris(carboxymethyl)-17-[[4[[(2,4-diamino-6-pteridinyl)methyl]methylamino]benzoyl]amino]-11,14-

L24 ANSWER 46 OF 71 USPATFULL (Continued) dioxo-, (175)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A

PAGE 1-B

IT 79640-69-0

(reaction; binding pair pretargeting with targeting moiety-affinity component conjugate and affinity component binding partner-functional moiety conjugate, and conjugate prepn.)

RN 79640-69-0 USPATFULL

CN L-Glutamic acid.

N-[4-[(2,4-diamino-6-pteridiny])methyl]methylamino|benzo yl]-, 1-(1,1-dimethylethyl) eater, 5-hydrazide (9CI) (CA INDEX NAME)

L24 ANSMER 47 OF 71 USPATFULL

ACCESSION NUMBER: 96:82464 USPATFULL

Delivery of therapeutic agents to receptors using polysaccharides

INVENTOR(S): Groman, Ernest V., Brookline, MA, United States

Menz, Edward T., Quincy, MA, United States

Enriquez, Philip M., Sheldonville, MA, United States

Enriquez, Philip M., Sheldonville, MA, United States

Lewis, Jerome M., Newton, MA, United States

Jung, Chu, Arlington, MA, United States

Lewis, Jerome M., Newton, MA, United States

Advanced Magnetics, Inc., Cambridge, MA, United States

(U.S. corporation)

NUMBER R KIND DATE

PATENT INFORMATION: APPLICATION INFO.: RELATED APPLN. INFO.:

US 5554386 19960910 US 1994-260551 19940616 (8) Continuation-in-part of Ser. No. US 1992-900686, filed on 17 Jun 1992, now patented, Pat. No. US 5478576 which

is a continuation-in-part of Ser. No. US 1992-936873, filed on 27 Aug 1992, now patented, Pat. No. US 5336506

which is a continuation of Ser. No. US 1990-630017, filed on 19 Dec 1990, now abandoned which is a continuation-in-part of Ser. No. US 1991-679536, filed on 2 Apr 1991, now patented, Pat. No. US 5141739 which is a continuation of Ser. No. US 1989-384991, filed on 2 Jul 1989, now abandoned which is a continuation-in-part of Ser. No. US 1988-228640, filed on 4 Aug 1988, now abandoned which is a continuation-in-part of Ser. No. US 1987-67586, filed on 26 Jun 1987, now patented, Pat. No. US 4827945

which

is a continuation-in-part of Ser. No. US 1986-882044, filed on 3 Jul 1986, now patented, Pat. No. US 4770183 Utility Granted Kiehore, Gollamudi S. Bromberg & Sunstein 17 DOCUMENT TYPE: FILE SEGMENT:

FILE SEGMENT:
PRIMARY EXAMINER:
LEGAL REPRESENTATIVE:
NUMBER OF CLAIMS:
EXEMPLARY CLAIM:
NUMBER OF DRAWINGS:
LINE COUNT:

Drawing Pigure(s); 4 Drawing Page(s)

NUMBER OF DRAWINGS: 4 Drawing Figure(a); 4 Drawing Page(a)
LINE COUNT: 1061
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB This invention relates to a method of directing a therapeutic agent to selected cells, wherein a complex is formed between a polysaccharide capable of interacting with a cell receptor and a therapeutic agent.

resulting complex is administered to a subject, and permitted to be internalized into the selected cells through a process known as

internalized into the selected cells through a process and a selected cells through a process and a selected mediated endocytosis (RME). The polysaccharide may be, for example, arabinogalactan, gum arabic, mannan or hydrolysis products thereof; the therapeutic agent may be, for example, an antiviral agent, a nucleic acid, hormone, steroid, antibody, chemoprocective or radioprotective agent. The cell receptor may be for example, the asialoglycoprotein

L24 ANSWER 48 OP 71 USPATFULL ACCESSION NUMBER: 96:6549

INVENTOR (S) :

SPATFULL
96.65493 USPATFULL
Nucleophilic polysubstituted aryl acridinium ester
conjugates uses thereof
Law, Say-Jong, Westwood, MA, United States
Chang, Steve C. S., Franklin, MA, United States
Klukas, Carol K., Pitteburgh, PA, United States
Vitkauskas, Christine A., North Attleboro, MA, United

PATENT ASSIGNEE(S): Ciba Corning Diagnostics Corp., Medfield, MA, United States (U.S. corporation)

NUMBER KIND DATE US 5538901 19960723 US 1994-292946 19940818 (8) Continuation of Ser. No. US 1993-32085, filed on 17 PATENT INFORMATION: APPLICATION INFO.: RELATED APPLN. INFO.:

1993, now abandoned which is a division of Ser. No. US
1992-871601, filed on 17 Apr 1992, now patented, Pat.
No. US 5241070, issued on 13 Aug 1993 which is a
continuation of Ser. No. US 1988-249620, filed on 26
Sep 1988, now abandoned
Utility
Granted

DOCUMENT TYPE: PILE SEGMENT: PRIMARY EXAMINER:

Spiegel, Carol A. Morgenstern, Arthur S., Roesler, Judith A. LEGAL REPRESENTATIVE: NUMBER OF CLAIMS:

EXEMPLARY CLAIM:

NUMBER OF DRAWINGS: 18 Drawing Figure(s); 15 Drawing Page(s)

LINE COUNT:

LINE COUNT: 1444

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB This invention is directed to the novel assay methods utilizing nucleophilic polysubstituted aryl acridinium ester conjugates as the tracers. Conjugates prepared by covalent coupling of novel nucleophilic polysubstituted aryl acridinium esters with biological compounds including small organic molecules such as Vitamin Bl2, folate, cortisol, estradiol, and thromboxane B2, were found useful in the development of highly sensitive assays for the analytes of diagnostic interest.

interest. IT 59-30-3, analysis

(detn. of, with folate-acridinium ester deriv. conjugate)
59-30-3 USPATFULL
L-Glutamic acid, N-[4-[{(2-amino-1,4-dihydro-4-oxo-6pteridinyl]methyl]amino|benzoyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

IT 59-30-3DP, derivs., conjugates with acridinium ester deriva.

L24 ANSWER 47 OF 71 USPATFULL (Continued)
receptor or the mannose receptor.

IT 59-05-2. Methortrexate
(drug delivery to receptors using polysaccharides)
RN 59-05-2 USPATFULL
CN L-Glutamic acid,
N-[4-[[2.4-diamino-6-pteridinyl]methylmethylmino]benzo
yll- [9C1] (CA INDEX RAME)

Absolute stereochemistry.

IT 59-05-2DP, Methotrexate, reaction products with polysaccharides (drug delivery to receptors using polysaccharides)
RN 59-05-2 USPATPULL
CN L-Glutamic acid,
N-[4-[[(2,-d-diamino-6-pteridinyl)methyl]methylamino|benzo
yl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L24 ANSWER 48 OF 71 USPATFULL (Continued)

(prepn. of, for folate detn.)
59-30-3 USPATFULL
L-Glutamic acid, N-[4-[[(2-amino-1,4-dihydro-4-oxo-6-pteridinyl)methyl]amino]benzoyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry

IT 59-05-2, Methotrexate (toxicity of, methylenetetrahydrofolate for decrease of) RN 59-05-2 USPATULL

L24 ANSWER 50 OF 71 USPATFULL ACCESSION NUMBER: 94:1130: 5,10-met SPATFULL

5.10-methylene-tetrahydrofolate as a modulator of a chemotherapeutic agent

Spears, Colin P., Glendale, CA, United States
Gustavason, Bengt G., Gothenburg, Sweden
University of Southern California, Los Angeles, CA,
United States (U.S. corporation) INVENTOR(S): PATENT ASSIGNEE(S): NUMBER KIND DATE

US 5376658 19941227
US 1993-174571 19931223 (8)
Continuation of Ser. No. US 1991-789729, filed on 12
Nov 1991, now abandoned which is a PATENT INFORMATION: APPLICATION INFO RELATED APPLN. INPO.: continuation-in-part of Ser. No. US 1990-521712, filed on 11 May 1990, now abandoned Utility Granted Cinting, Marianne M. Criares, T. J. Robbins, Berliner & Carson 26 DOCUMENT TYPE: PRIMERY EXAMINER:
ASSISTANT EXAMINER:
LEGAL REPRESENTATIVE: NUMBER OF CLAIMS: EXEMPLARY CLAIM: NUMBER OF DRAWINGS: EXEMPLARY CLAIM:

1 NUMBER OF DRAWINGS: 5 Drawing Figure(s); 5 Drawing Page(s)
LINE COUNT:

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to the compound 5,10-methyleneterrahydrofolate (CH.sub.2 PH.sub.4), and its solution product isomer
PH.sub.4, therapeutic uses of these compounds, and compositions
thereof. reof.

CH.sub.2 FH.sub.4 and FH.sub.4 strongly modulate the in vivo antitumor effects of 5-Fluorouracil.

59-30-3, Polic acid, biological studies (deficiency of, treatment of, methylenetetrahydrofolate for)

55-30-3 USPATFULL

L-Glutamic acid, N-[4-{[{2-amino-1,4-dihydro-4-oxo-6-pteridinyl}methyl|amino|benzoyl}- (9CI) (CA INDEX NAME) ΙT

СО2H

Absolute stereochemistry.

IT 59-05-2, Methotrexate (toxicity of, methylenetetrahydrofolate for decrease of)
RN 59-05-2 USPATPULL
CN L-Glutamic acid,
N-[4-[[4],-d-diamino-6-pteridinyl)methyl]methylamino]benzo
yl]- (9CI) (CA INDEX NAME)

L24 ANSMER 49 OF 71 USPATFULL (Continued)
CN L-Glutamic acid,
N-{4-{(2,4-diamino-6-pteridinyl)methyl]methylamino]benzo
yl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L24 ANSWER 50 OF 71 USPATFULL (Continued)
Absolute stereochemistry.

L24 ANSMER 51 OF 71 USPATFULL
ACCESSION NUMBER: 94:6859:
TITLE: Targeti:
INVENTOR(S): Josephs SPATFULL
94:68598 USPATFULL
Targeting of therapeutic agents using polysaccharides
Josephson, Lee, Arlington, MA, United States
Groman, Ernest V., Brookline, MA, United States
Jung, Chu, Arlington, MA, United States
Lewis, Jerome M., Newton, MA, United States
Advanced Magnetice Inc., Cambridge, MA, United States
(U.S. corporation) PATENT ASSIGNEE(S): NUMBER KIND DATE

US 5336506 19940809
US 1992-936873 19920827 (7)
Continuation of Ser. No. US 1990-630017, filed on 19
Dec 1990, now abandoned which is a PATENT INFORMATION: APPLICATION INFO.: RELATED APPLN. INFO.: continuation-in-part of Ser. No. US 1991-679526, filed on 2 Apr 1991, now patented, Pat. No. US 5141739 And a continuation-in-part of Ser. No. US 1989-384991, filed on 2 Jul 1989, now abandoned which is a continuation-in-part of Ser. No. US 1988-228640, filed on 4 Aug 1988, now abandoned which is a continuation-in-part of Ser. No. US 1987-67586, filed on 26 Jun 1987, now patented, Pat. No. US 4827945 which is a continuation-in-part of Ser. No. US 1986-882044, filed on 3 Jul 1986, now patented, Pat. No. US 4770183 Utility Granted DOCUMENT TYPE: FILE SEGMENT: FILE SEGMENT:
PRIMARY EXAMINER:
LEGAL REPRESENTATIVE:
NUMBER OF CLAIMS:
EXEMPLARY CLAIM:
NUMBER OF DRAWINGS: Kishore, G. S. Bromberg & Sunstein 1 Drawing Figure(s); 1 Drawing Page(s) LINE COUNT: 544
CAS INDEXING IS AVAILABLE FOR THIS PATENT. DEXING IS AVAILABLE FOR THIS PATENT.
The invention relates to a method for the targeting of a therapeutic agent to a specific population of cells, wherein a complex is formed between the therapeutic agent and a polysaccharide capable of interacting with a cell receptor, and wherein the resulting complex is internalized into the cell by receptor mediated endocytosis (RMS). In one embodiment of the invention, a complex of a therapeutic agent containing iron and the polysaccharide arabinogalactan may be formed used to deliver iron specifically to hepatocytes by RME. IT 59-05-2, Methotrexate 1T 39-03-4, Methotrexace

(drug delivery to receptors using polysaccharides)

RN 59-05-2 USPATFULL

CN L-Glutamic acid,

N-{4-[(2,4-diamino-6-pteridinyl)methyl]methylamino|benzo

yl]- (9CI) (CA INDEX NAME)

L24 ANSWER 52 OF 71 ACCESSION NUMBER: TITLE:

Absolute stereochemistry.

USPATFULL

94:44559 USPATFULL

Catalytic and reactive polypeptides and methods for
their preparation and use

Schultz, Peter, Oakland, CA, United States
The Regents of the University of California, Oakland,
CA, United States (U.S. corporation)

INVENTOR(S): PATENT ASSIGNEE(S):

PATENT INFORMATION: APPLICATION INFO.: RELATED APPLN. INFO.:

NUMBER KIND DATE

US 5314817 19940524
US 1992-988652 19921210 (7)
Division of Ser. No. US 1989-404920, filed on 8 Sep
1999, now patented, Pat. No. US 5315889 which is a
continuation-in-part of Ser. No. US 1988-273455, filed
on 18 Nov 1988, now abandoned
Utility
Granted
Patterson, Jr., Charles L.
Townsend and Townsend Khourie and Crew
3

DOCUMENT TYPE:

PILE SEGMENT:
PRIMARY EXAMINER:
LEGAL REPRESENTATIVE:
NUMBER OF CLAIMS:
EXEMPLARY CLAIM:
NUMBER OF DRAWINGS:

NUMBER OF DRAWINGS: 26 Drawing Figure(e); 19 Drawing Page(e)
LINE COUNT: 2126

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Catalytic and reactive polypeptides include a binding site specific for a reactant or reactive intermediate involved in a chemical reaction of interest. The polypeptides further include at least one active functionality proximate the binding site, where the active is canable of caralysis.

No.

onality
is capable of catalyzing or chemically participating in the chemical
reaction in such a way that the reaction rate is enhanced. Methods for
preparing the catalytic peptides include chemical synthesis,
site-directed mutagenesis of antibody and enzyme genee, covalent
attachment of the functionalities through particular amino acid side attachment of the fun chains, and the like.

This invention was made with Government support under Grant Contract

No.

AI-24695, awarded by the Department of health and Human Services, and under Grant Contract No. N 00014-87-K-0256, awarded by the Office of Naval Research. The Government has certain rights in this invention.

IT 59-30-3, biological studies (cofactor for, catalytic antibodies)

RN 59-30-3 USPATFULL

CN L-Glutamic acid, N-[4-[[(2-amino-1,4-dihydro-4-oxo-6-pteridinyl)methyl]amino]benzoyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L24 ANSWER 51 OF 71 USPATFULL (Continued)

IT 59-05-2DP, Methotrexate, reaction products with polysaccharides (drug delivery to receptors using polysaccharides)
RN 59-05-2 USPATULL
CN L-Glutamic acid.
N-[4-[f(2,-diamino-6-pteridinyl)methyl]methylamino|benzo
yl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L24 ANSWER 52 OF 71 USPATFULL (Continued)

L24 ANSWER 53 OF 71 ACCESSION NUMBER: TITLE:

SPATPULL
94:30969 USPATFULL
Catalytic and reactive polypeptides and methods for
their preparation and use
Schultz, Peter. Oakland, CA, United States
Regents of the University of California, Berkeley, CA,
United States (U.S. corporation) INVENTOR(S): PATENT ASSIGNEE(S):

NUMBER KIND DATE

USPATFULI.

PATENT INFORMATION: APPLICATION INFO.: DISCLAIMER DATE: RELATED APPLN. INFO.: US 5302516 19940412 US 1992-988643 19921210 (7) 20100601 Continuation of Ser. No. US 1989-404920, filed on 8 19940412 19921210 (7)

1989 which is a continuation-in-part of Ser. No. US 1988-273455, filed on 18 Nov 1988, now abandoned Utility Granted Patterson, Jr., Charles L. Townsend and Townsend Khourie and Crew

1989 which is a continuation-in-part of Ser. No. US
1982-273455, filed on 18 Nov 1988, now abandoned
DOCUMENT TYPE: Utility
FILE SECHENT: Granted
PRIMARY EXAMINER: Patterson, dr., Charles L.
LEGAL REPRESENTATIVE: Townsend and Townsend Knourie and Crew
NUMBER OF CLAIMS: 7
EXEMPLARY CLAIM: 7
EXEMPLA

Absolute stereochemistry.

L24 ANSWER 54 OF 71 USPATFULL ACCESSION NUMBER:

INVENTOR(S):

ISPATFULL

94:13523 USPATFULL

Difluoroglutamic acid conjugates with folates
and anti-folates for the treatment of
neoplastic diseases

Bey, Philippe, Cincinnati, OH, United States

Coward, James K., Ann Arbor, MI, United States

McGuire, John J., Kenmore, NY, United States

The Regents of the University of Michigan, Ann Arbor,

MI, United States (U.S. corporation)

Health Research, Inc., Buffalo, NY, United States PATENT ASSIGNEE(S):

(U.S.

corporation)
Merrell Dow Pharmaceuticals Inc., Cincinnati, OH,
United States (U.S. corporation)

NUMBER KIND DATE
US 5286726 1994021
US 1990-508873 1990041
Utility
Granted
Daus, Donald G.
Mack, Anna E., Dunn, Michael L.
6 PATENT INFORMATION: US 5286726 19940215

APPLICATION INFO.: US 1990-508873 19900412 (7)

DOCUMENT TYPE: Utility

FILE SEGMENT: Granted

PRIMARY EXAMINER: Daus, Donald G.

LEGAL REPRESENTATIVE: Mack, Anna E., Dunn, Michael L.

NUMBER OF CLAIMS: 6

EXEMPLARY CLAIM: 1

LINE COUNT: 625

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB This invention relates to certain conjugates of folates and antifolates with difluoroglutamic acid which are useful in the treatment

antifolates with difluoroglutamic actu which we have a freedment of patients suffering from certain neoplastic diseases including leukemia, melanomas, carcinomas, sarcomas and mixed neoplasias.

IT 59-30-3DP, difluoroglutamic acid-contg. analogs (prepn. of, for treatment of tumors and/or psoriasis)

RN 59-30-3 USPATPULL
CN L-Glutamic acid, N-[4-[[(2-amino-1,4-dihydro-4-oxo-6-pteridinyl)methyl]amino]benzoyl]- (9CI) (CA INDEX NAME)

L24 ANSWER 53 OF 71 USPATFULL (Continued)

L24 ANSMER 55 OF 71 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1994:239683 CAPLUS
DOCUMENT NUMBER: 120:239683
TITLE: Preparation of controlled-size inorganic particles

use in separations, assays, as magnetic molecular switches, and as inorganic liposomes for medical applications
Chagnon, Mark S.; Carter, Michelle J.; Ferris, John R.; Gray, Maria A.; Hamilton, Tracy J.; Rudd, Edwin

INVENTOR (S):

PATENT ASSIGNEE(S): SOURCE:

Molecular Bioquest, Inc., USA
PCT Int. Appl. 101 pp.
CODEN: PIXXD2
Patent
English 7

DOCUMENT TYPE: LANGUAGE: PAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO.			KIND DATE			APPLICATION NO.						DATE						
														-				
				A.	1	1993	1223		WC	19	93 -	US5	595		1993	0608		
	W:																	
	RW:	ΑT,	ΒĒ,	CH,	DE,	DK,	ES,	PR,	GB,	GR,	ΙE	, I	Т,	LU,	MC,	NL,	PT,	s
US 5	9358	66		A		1999	0810		US	19	92-	894	260		1992	8090		
US 5	3893	77		A		1995	0214		US	19	92-	958	646		1992	1007		
US 5	4417	46		A		1995	0815		US	19	93 -	576	87		1993	0505		
EP 6	4504	8		A	1	1995	0329		EF	19	93 -	915	304		1993	8030		
	R:	DE,	FR,	GB,	SE													
JP 0	8500	700		T	2	1996	0123		JE	19	93 -	501	742		1993	9090		
PRIORITY	APPL	N. 3	INFO	. :				υ	5 19	92-	894	260			1992	0608		
								υ	S 19	92-	911	962			1992	0710		
								u	S 19	92-	958	646			1992	1007		
								u	S 19	93-	576	87			1993	0505		
								υ	S 19	89-	455	071			1989	1222		
								υ	S 19	90-	556	169			1990	0810		
								υ	S 19	90-	566	169			1990	0810		
									0 19						1993	0608		

Inorg. oxides of substantially uniform particle size distribution are prepd. by contacting aq. solns. of an inorg. salt and an inorg. base across a porcus membrane, wherein the membrane contains pores which allow for pptn. of a substantially monodispersed size of inorg. oxide particles on one side of the membrane and pptn. of a salt of the corresponding base on a second side of the membrane. The prepd. particles can be coated

an organo-metallic polymer having attached thereto an org. functionality to which a variety of org. and/or biol. mols. can be coupled. The coupled

to which a variety of org. and/or biol. mois. can be coupled. The led particles may be used for in vitro or in vivo systems involving sepns. steps or the directed movement of coupled mols. to particular sites, including immunol. assays, other biol. assays, biochem. or enzymic reactions, affinity chromatog. purifn., cell sorting, and diagnostic and therapeutic uses. In a further embodiment, described herein are liposome compns. which comprise the substantially uniform size inorg. core coated with an amphipathic org. compd. and further coated with a second amphipathic vesicle-forming lipid. Also disclosed are novel Ph lipid compds. which serve as the vesicle-forming lipid. When the mespectic particles are electromagnetic wave-absorbing surface-modified particles, such particles provide for the prepn. of liposome compns. which offer a method for the treatment of cancer, as well as infectious diseases. Electromagnetic wave-absorbing ferrites were prepd. by the hydroxide gel

L24 ANSWER 55 OF 71 CAPLUS COPYRIGHT 2002 ACS (Continued) process from FeCl3, CaCl2, and EnCl2 or from FeCl3, FeCl2, and MnCl2

process from FeCl3, CaCl2, and ZnCl2 or from FeCl3, FeCl2, and MnCl2 in process from FeCl3, CaCl2, and ZnCl2 or from FeCl3, FeCl2, and MnCl2 in NaON and O2. The ferrite particles were coated with oleic acid and then treated with a second layer of Ph lipid prepd. from 5-aminoisophthalic acid and methoxypolyoxyethylene inidazoly carbonyl. The lipid-coated ferrites and uncoated ferrites (controls) were incubated with MDCK cells grown above a colony of rat neuroblastoma cells and then exposed to a frequency of 20,000 mHz for 3 min. None of the bare ferrite particles were permeable to the MDCK membrane and so had no effect on the cancer cells; the lipid-coated ferrites were permeable, heated up upon exposure to the electromagnetic wave, and killed all the cancer cells. Lipid-coated ferrites (contg. all Fe) that did not absorb electromagnetic waves were able to cross the cell barrier but were unable to kill the neuroblastoma cells.

59-30-3 Folate, analysis
RL: ANT (Analyte); ANST (Analytical study)
(detn. of, by imminoassay using inorg. oxide particles coated with organometallic polymer functionalized to bind antibodies)

59-30-3 CAPLUS
L-Glutamic acid, N-[4-[{(2-amino-1,4-dihydro-4-oxo-6-pteridinyl)methyl|amino|benzoyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L24 ANSWER 56 OF 71 USPATFULL (Continued)

Absolute stereochemistry.

L24 ANSWER 56 OF 71 USPATFULL ACCESSION NUMBER: 93:72216 TITLE: Nucleoph

93:72216 USPATFULL Nucleophilic polysubstituted aryl acridinium esters

and

uses thereof
Law. Say-Jong, Mestwood, MA, United States
Ciba Corning Diagnostics Corp., Medfield, MA, United
States (U.S. corporation) INVENTOR(S): PATENT ASSIGNEE (S):

NUMBER KIND DATE US 5241070 19930831
US 1992-871601 19920417 (7)
20070417
Continuation of Ser. No. US 1988-249620, filed on 26
Sep 1988, now abandoned
Utility
Granted
Daus, Donald G.
Morgenstern, Arthur S., Slepchuk, Jr., Nicholas I. PATENT INFORMATION: APPLICATION INFO.: DISCLAIMER DATE: RELATED APPLN. INFO.:

RELATED APPLM. INFO.: Continuation of Ser. No. US 1988-249620, filed on 26 Sep 1988, now abandoned

DOCUMENT TYPE: Utility
Granted
PRIMARY EXAMINER: Daus, Donald G.

LEGAL REPRESENTATIVE: Morgenstern, Arthur S., Slepchuk, Jr., Nicholas I.

NUMBER OF CLAIMS: 3

EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 18 Drawing Figure(s); 15 Drawing Page(s)

LINE COUNT: 1023

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB This invention is directed to novel nucleophilic polysubstituted aryl acridinium esters and novel conjugates thereof. The novel nucleophilic polysubstituted aryl acridinium esters and novel conjugates thereof are useful in biological assays, including novel assays for the determination of Vitamin B.sub.12, folate, cortisol, estradiol, and thromboxane B.sub.2.

IT 59-30-3 USPATPULL

CN L-Glutamic acid, N-[4-{{(2-smino-1,4-dihydro-4-oxo-6-pteridinyl) methyllaminolbenzoyl}- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

Absolute stereochemistry.

IT 59-30-3DP, derivs., conjugates with acridinium ester derivs.

(prepn. of, for folate detn.)

RN 59-30-3 USPATFULL

CN L-Glutamic acid, N-[4-[[(2-amino-1,4-dihydro-4-oxo-6-pteridinyl)methyl]amino]benzoyl]- (9CI) (CA INDEX NAME)

L24 ANSWER 57 OF 71 USPATFULL

ACCESSION NUMBER:

SPATFULL

93:44127 USPATFULL

Catalytic and reactive polypeptides and methods for their preparation and use Schultz, Peter, Oakland, CA, United States

The Regents of the University of California, Oakland, CA, United States (U.S. corporation)

INVENTOR(S): PATENT ASSIGNEE(S):

US 5215889 19930601
US 1989-404920 19890908 (7)
Continuation-in-part of Ser. No. US 1988-273455, filed on 18 Nov 1988
ULility
Granted
Patterson, Jr., Charles L.
Townsend and Townsend
19 PATENT INFORMATION:

APPLICATION INFO.: RELATED APPLN. INFO.:

ON 18 Nov 1988

DOCUMENT TYPE: Utility
Granted
PRIMARY EXAMINER: Patterson, Jr., Charles L.
LEGAL REPRESENTATIVE: Townsend and Townsend
NUMBER OF CLAIMS: 19
EXEMPLARY CLAIM: 1
NUMBER OP DRAWINGS: 22 Drawing Figure(s); 19 Drawing Page(s)
LINE COUNT: 2248

CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB Catalytic and reactive polypeptides include a binding site specific for a reactant or reactive intermediate involved in a chemical reaction of interest. The polypeptides further include at least one active functionality proximate the binding support under Grant Contract

This invention was made with Government support under Grant Contract

No.

Al-24695 awarded by the Department of Health and Human Services, under Grant Contract No. N 00014-87-K-0256, awarded by the Office of Naval Research. The Government has certain rights in this invention, under Grant Contract CHE 882412 awarded by the National Science Foundation, and under Grant Subcontract C87-101226 awarded by the Department of Energy.

IT 59-30-3, biological studies

(cofactor for, catalytic antibodies)

RN 59-30-3 USPATFULL

CN L-0lutamic acid, N-[4-[[(2-amino-1,4-dihydro-4-oxo-6-pteridinyl)methyl]amino]benzoyl]- (9CI) (CA INDEX NAME)

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L24 ANSWER 58 OF 71 USPATFULL ACCESSION NUMBER: 92:10497
                                                                                                                                                                             92:104975 USPATFULL
                                                                                                                                                                         SETUDIOS OSCIPIOLIS STATULIS STABLE INJECTABLE PHARMACULTICAL FOR STABLE STABLE
   INVENTOR(S):
                                                                                                                                                                NUMBER KIND DATE

US 5173488 19931222
US 1991-696335 19931232
US 1991-696335 (7)
Continuation of Ser. No. US 1989-396573, filed on 21
Aug 1989, now abandoned
Utility
Granted
Bond, Robert T.
Szatkowski, Thomas S.
20
   PATENT ASSIGNEE(S):
   PATENT INFORMATION:
 APPLICATION INFO.:
RELATED APPLN. INFO.:
   DOCUMENT TYPE:
DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Bond, Robert T.
LEGAL REPRESENTATIVE: Szatkowski, Thomas S.
NUMEER OF CLAIMS: 20
EXEMPLARY CLAIM: 1
LINE COUNT: 943
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB Injectable aqueous compositions comprising folic acid and leucovorin and their makes, optionally including beneval alcohol acidium chloride and
                                                   their salts, optionally including benzyl alcohol, sodium chloride and agents for adjusting pH are stabilized and buffered in the range of 6
to

10 by adding a combination of tromethamine and monothioglycerol. Such compositions remain stable for prolonged periods even when exposed to sunlight.

IT 59-30-3D, Folic acid, salts 6484-89-5, Sodium folate (injection formulations contg. leucovorin and)

RN 59-30-3 USPATPULL

CN L-Glutamic acid, N-{4-([(2-amino-1,4-dihydro-4-oxo-6-pteridinyl)methyl]amino]benzoyl]- (9CI) (CA INDEX NAME)
```

6484-89-5 USPATFULL L-Glutamic acid, N-[4-[[(2-amino-1,4-dihydro-4-oxo-6-pteridinyl)methyl}amino|benzoyl]-. monosodium salt (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L24 ANSWER 59 OF 71 USPATFULL ACCESSION NUMBER: 92:7887

SPATPULL
92:78877 USPATFULL
Methods, compounds, and compositions for
immunosuppression
Ando, Dale G., Walnut Creek, CA, United States
Levenson, Corey H., Oakland, CA, United States
Braude, Irwin, Vallejo, CA, United States
Cetus Corporation, Emeryville, CA, United States
corporation) TITLE: INVENTOR(S): PATENT ASSIGNEE (S): NUMBER KIND DATE US 5149688 19920922 US 1990-513983 19900424 (7) Utility Granted Waddell, Frederick E. Fay, Zohreh A. Bortner, Scott R., Giotta, Gregory J., Wong, Wean PATENT INFORMATION: APPLICATION INFO.: DOCUMENT TYPE: PILE SEGMENT: PRIMARY EXAMINER: ASSISTANT EXAMINER: LEGAL REPRESENTATIVE: LEGAL REPRESENTATIVE: Bortner, Scott R., Giotta, Gregory J., Wong, Wean Khing
NUMBER OF CLAIMS: 2
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 15 Drawing Figure(a); 15 Drawing Page(a)
LINE COUNT: 1044
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB This invention is in the area of immunology, and specifically relates immunopharmacology as applied to the development of immunosuppressive compositions and methods of use thereof for treating a wide variety of diseases arising from abnormal or undesirable normal immune responses. Compositions and methods of using the same that are particularly useful in treating autoimmune diseases are shown.

IT 59-05-2, Methotrexate 59-05-2D, Methotrexate, derivs.
55-30-3D, Folic acid, analogs (acetoacetylacerboxylic acid or succinylacetone combined with, as immunosuppressant)
RN 59-05-2 USPATPULL
CN L-Glutamic acid.
N-[4-[[(2,4-diamino-6-pteridinyl)methyl]methylamino]benzo yl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

59-05-2 USPATFULL

NN 59-05-2 USPAIRULE
CN L-Glutamic acid,
N-[4-[(12,4-diamino-6-pteridinyl)methyl]methylamino]benzo
yl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L24 ANSWER 58 OF 71 USPATFULL (Continued)

L24 ANSWER 59 OF 71 USPATFULL (Continued)

59-30-3 USPATFULL
L-Glutamic acid, N-[4-[[(2-amino-1,4-dihydro-4-oxo-6-pteridinyl)methyl]amino]benzoyl}- (9CI) (CA INDEX NAME)

L24 ANSWER 60 OF 71 USPATFULL ACCESSION NUMBER: 91:94726

TITLE:

SPATFULL

91:94726 USPATFULL

Difluoroglutamic acid conjugates with folates
and anti-folates for the treatment of
neoplastic diseases

Bey, Philippe, Cincinnati, OH, United States
Kolb, H. Nichael, Cincinnati, OH, United States
Merrell Dow Pharmaceuticals Inc., Cincinnati, OH,
United States (U.S. corporation) INVENTOR(S): PATENT ASSIGNEE(S):

NUMBER ER KIND DATE US 5066828 US 1990-508874 Utility Granted Reamer, James H. Nesbitt, Stephen L. 19911119 19900412 (7)

PATENT INFORMATION: APPLICATION INFO.: DOCUMENT TYPE: FILE SEGMENT:

PRIMARY EXAMINER

PRIMARY EXAMINER: LEGAL REPRESENTATIVE: NUMBER OF CLAIMS: EXEMPLARY CLAIM:

LINE COUNT:

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB This invention relates to certain conjugates of folates and antifolates with difluoroglutamic acid which are useful in the

atment
of patients suffering from certain neoplastic diseases including
leukemia, melanomas, carcinomas, sarcomas and mixed neoplasias.
59-30-3DP, conjugates with difluoroglutamic acid derivs.,
preparation
(prepn. of)
59-30-3 USPATFULL
L-Glutamic acid, N-{4-{[(2-amino-1,4-dihydro-4-oxo-6pteridinyl)methyl}amino|benzoyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

ANSWER 62 OF 71 CAPLUS COPYRIGHT 2002 ACS SSSION NUMBER: 1989:127583 CAPLUS ACCESSION NUMBER:

110:127583 DOCUMENT NUMBER:

TITLE:

Preparation and properties of yttrium and heavy lanthanide complexes with folic acid Brzyka, Wanda: Ozga, Wanda Inst. Chem., Uniw. Marii Curie-Sklodowska, Lublin, AUTHOR(S): CORPORATE SOURCE:

SOURCE:

Pol. Biul. Lubel. Tow. Nauk., Mat.-Piz.-Chem. (1988), Volume Date 1985, 27(1), 43-51 CODEN: BLTMDK; ISSN: 0460-2366

DOCUMENT TYPE:

DOCUMENT TYPE: Journal
LANGUAGE: Polish

A The formation conditions of Y and heavy lanthanide complexes with folic
 acid were studied, their compn. and soly. in water at 298 K was detd. and
 IR and x-ray spectra were recorded. The conditions and products of the
 thermal decompn. of the obtained complexes in air were examd. Complexes
 of Y and heavy lanthanides with folic acid with the molar ratio of
 matal-ligand of 2:3 were prepd. as x-ray amorphous
 hydrates having 15 mols. of crystn. water. They were very sparingly sol.
 in H2O, their soly. being of the order of 10:5-10-6 mol-dm-3. On
heating.

heating, the hydrates lose crystn. water mola. and form anhyd. salts, which

The transfer of the second sec

Absolute stereochemistry.

L24 ANSWER 61 OF 71
ACCESSION NUMBER:
TITLE:
Assay for sulfhydryl amino acids and methods for detecting and distinguishing cobalamin and folic acid deficency
Allen, Robert H., Englewood, CO, United States
Stabler, Sally P., Denver, CO, United States
Lindenbaum, John, New York, NY, United States
University Patents, Inc., Westport, CT, United States
(U.S. corporation)

DATE

NUMBER KIND

US 4940658 19
US 1986-933553 19
Utility
Granted
Kennl' PATENT INFORMATION: 19900710 19861120 (6)

APPLICATION INFO.: DOCUMENT TYPE: FILE SEGMENT:

Kepplinger, Esther M. Scheiner, Toni R. Yahwak & Associates PRIMARY EXAMINER: PRIMARY EXAMINER:
ASSISTANT EXAMINER:
LEGAL REPRESENTATIVE:
NUMBER OF CLAIMS:
EXEMPLARY CLAIM:
NUMBER OF DRAWINGS:

18 7 Dr 2375 Drawing Figure(s); 7 Drawing Page(s)

EXEMPLIANT

NUMBER OF DRAWINGS: 7 Drawing rigure.

LINE COUNT: 2375

LINE COUNT: 2375

AB Method for determining levels of sulfhydryl amino acids, particularly total homocysteine levels in samples of body tissue from warm-blooded animals, methods of detecting cobalamin and folic acid deficiency using an assay for total homocysteine levels, and methods for distinguishing cobalamin from folic acid deficiency using an assay for total homocysteine levels, and methods for distinguishing cobalamin from folic acid deficiency using an assay for total homocysteine levels in conjunction with an assay for methylmalonic acid.

acid.

IT 59-30-3, Folic acid, biological studies
(deficiency of, homocysteine and methylmalonate detn. in diagnosis of)
RN 59-30-3 USPATFULL
CN L-Glutamic acid, N-[4-[{(2-amino-1,4-dihydro-4-oxo-6pteridinyl)methyl}amino|benzoyl]- (9CI) (CA INDEX NAME)

L24 ANSWER 63 OF 71 ACCESSION NUMBER: TITLE: USPATFULL

87:41588 USPATFULL

Compositions and method for simultaneous multiple

of analytes using radioisotope chelste labels Olson, Douglas R., Doylestown, PA, United States ICN Micromedic Systems, Inc., Costa Mesa, CA, United States (U.S. corporation) INVENTOR (S): PATENT ASSIGNEE(S):

NUMBER ER KIND DATE

US 4672028 US 1984-612979 Utility Granted Nucker, Christine M. Lyon & Lyon 47 19870609 19840523 (6) PATENT INFORMATION: APPLICATION INFO.: DOCUMENT TYPE: FILE SEGMENT:

FILE SEGMENT:
PRIMARY EXAMINER:
LEGAL REPRESENTATIVE:
NUMBER OF CLAIMS:
EXEMPLARY CLAIM:
LINE COUNT:

LINE COUNT:

784
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Compounds useful in a simultaneous multiple assay for analytes such as steroids, proteins, peptides, carbohydrates or drugs. The compound or compounds are prepared by labelling an individual analyte with a radioisotope through a chelating agent to form a coordinated compound. The assay uses one or more chelated labelled analytes with one or more labelled analytes wherein each radioisotope is

is
 different.
IT 59-30-3, analysis
 (detn. of, in simultaneous multiple RIAs, metal isotope chelste labels
 for)
RN 59-30-3 USPATFULL
CN L-Glutamic acid, N-[4-[[(2-amino-1,4-dihydro-4-oxo-6 pteridinyl)methyl]amino]benzoyl]- (9CI) (CA INDEX NAME)

L24 ANSWER 64 OF 71 CAPLUS COPYRIGHT 2002 ACS ACCESSION NUMBER: 1985:2459 CAPLUS DOCUMENT NUMBER: 102:2459 102:2459 Studies on the nature of transition-metal -ion-mediated binding of triazine dyes to enzymes. TITLE: interaction of Procion Red MX-8B with interaction of Procion Red MX-8B with

OXYpeptidase

G-2
Hughes, Peter; Sherwood, Roger F.; Lowe, Christopher R.

ORATE SOURCE:
Microb. Technol. Lab., Serv. Cent. Appl. Microbiol.
Res., Porton Down, UK

Eur. J. Biochem. (1984), 144(1), 135-42
CODEN: EJBCAI; ISSN: 0014-2956

MENT TYPE:
Journal
HUGE:
English
Several reactive acoic dichlorotriazinyl dyes specifically and irreversibly inactivate the folata-degrading enzyme carboxypeptidase G-2 (1) at a site competitive with methotrexate (4-amino-N10-methylfolate) and p-aminobenzoyl-L-glutamate. Although the less reactive monochlorotriazinyl dye, Procion Red H-8BN, was unable to inactivate I, it was capable of marked inhibition of inactivation by dichlorotriazinyl dyes in the presence of Zn2-. Zn2-, and to a lesser extent other lst row transition metal ions, significantly enhanced the affinity of Procion Red H-8BN and its analogs Procion Red MX-8B and Procion Red MX-8B, for I. Apparently, this effect is mediated through the formation of a specific tetracoordinate Zn complex between carboxypeptidase AUTHOR (S): CORPORATE SOURCE: SOURCE: DOCUMENT TYPE: azo linkage and adjacent sulfonate and hydroxyl functions of the dye and an appropriate ligand on the protein. I quant. inactivated with the dichlorotriazinyl dye Procion Red MX-88 contained .apprx.1 mol dye/mol subunit of mol. wt. 42,000. Proteolytic cleavage of labeled I and resoln. of the peptides by reverse-phase HPLC yielded a principal red peptide which, on amino acid sequence anal., resulted in the identification of dye-binding domain. Apparently, the affinity label Procion Red MX-8B is attached to the hydroxylic side chain of threonine-279. 39-05-2 RL: BIOL (Biological study) (cerboxypeptidase G-2 inactivation by Procion Red MX-8B protection by) 59-05-2 CAPLUS L-Glutamic acid, -[[(2,4-diamino-6-pteridinyl)methyl]methylamino|benzo yl]- (GCI INDEX NAME)

L24 ANSWER 65 OF 71 ACCESSION NUMBER: TITLE: USPATFULL

Absolute stereochemistry.

SPATFULL

8:2:11674 USPATFULL

Process for preparation of folic acid derivatives
Parins, Peter R., North Salem, NY, United States
Grattan, James A., Croton-on-Hudson, NY, United States
Baker Instruments Corp., Wilton, CT, United States
(U.S. corporation) INVENTOR(S): PATENT ASSIGNER(S):

NUMBER KIND DATE

19820629
US 1979-90059 19791031 (6)
Division of Ser. No. US 1979-34760, filed on 30 Apr
1979, now Defensive Publication No.
ULility
Granted
Coughlan, Jr., Paul M.
Rauchfuss, Jr., George W.
11 PATENT INFORMATION:

APPLICATION INFO.: RELATED APPLN. INFO.:

DOCUMENT TYPE:

DOCUMENT TYPE: Utility
FILE SEGMENT:
Granted
Granted
FRIMARY EXAMINER:
COUGhlan, Jr., Paul M.
LEGAL REPRESENTATIVE:
RAUCHfuss, Jr., George W.
NUMER OF CLAIMS:
11
EXEMPLARY CLAIM:
1 NUMBER OF DRAWINGS:
1 Drawing Figure(s); 1 Drawing Page(s)
LINE COUNT:
797
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB Polic acid derivatives, such as radiolabeled pteroyltyrosine, are conveniently synthesized from either pteroic acid or by the direct condensation of 6-formylpterin with p-aminobenzoyltyrosine methyl ester.

ester.

The radioiodinated derivatives are particularly useful in competitive protein binding and radioimmuno-assays of folate compounds.

IT 59-30-3DP, radioactive iodine derivs.

(prepn. of, for radioimmunoassay)

RN 59-30-3 USPATFULL

CN L-Glutamic acid, N-[4-[[(2-amino-1,4-dihydro-4-oxo-6-pteridinyl)methyl]amino]benzoyl]- (9CI) (CA INDEX NAME)

59-30-3P, preparation
(radioimmunoassay of, folic acid radioactive iodine deriv. for)
59-30-3 USPATFULL
L-Glutamic acid, N-[4-[[(2-amino-1,4-dihydro-4-oxo-6pteridinyl)methyllamino]benzoyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L24 ANSWER 64 OF 71 CAPLUS COPYRIGHT 2002 ACS (Continued)

L24 ANSWER 65 OF 71 USPATFULL (Continued)

L24 ANSWER 66 OF 71 USPATFULL
ACCESSION NUMBER: 82:19052 USPATFULL
TITLE: Process for preparation of folic acid derivatives
Farina, Peter R., North Salem, NY, United States
Grattan, James A., Croton-on-Rudson both of, NY,

PATENT ASSIGNEE (S): Baker Instruments Corporation, Bethlehem, PA, United States (U.S. corporation)

NUMBER KIND DATE

US 4326060 19820420
US 1979-90064 19793031 (6)
Division of Ser. No. US 1979-34760, filed on 30 Apr
1979, now Defensive Publication No.
Utility
Granted
Rizzo. Nicholae c PATENT INFORMATION:

APPLICATION INFO.: RELATED APPLN. INFO.:

DOCUMENT TYPE:

PILE SEGMENT: PRIMARY EXAMINER: LEGAL REPRESENTATIVE: Rizzo, Nicholas S. Rauchfuss, George W.

LEGAL REPRESENTATIVE: Rauchfuss, George M.
NUMBER OF CLAIMS: 8
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 1 Drawing Figure(s); 1 Drawing Page(s)
LINE COUNT: 789
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB Polic acid derivatives, such as radiolabeled pteroyltyrosine, are conveniently synthesized from either pteroic acid or by the direct condensation of 8-formylpterin with p-aminobenzoyltyrosine methyl cafer.

ester.

The radioiodinated derivatives are particularly useful in competitive protein binding and radioimmuno-assays of folate compounds.

IT 59-30-3DP, radioactive iodine derivs.

{prepn. of, for radioimmunoassay}

RN 59-30-3 USPATFULL

CN L-Glutamic acid, N-[4-[[(2-amino-1,4-dihydro-4-oxo-6-pteridinyl)methyl]amino|benzoyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

IT 59-30-3P

59-10-3P, preparation
{radioimmunoassay of, folic acid radioactive iodine deriv. for}
59-30-3 USPATFULL

59-30-3 USPATPULL
L-Glutamic acid, N-{4-{((2-amino-1,4-dihydro-4-oxo-6-pteridinyl)methyl)amino|benzoyl}- (9CI) (CA INDEX NAME)

L24 ANSWER 67 OF 71 USPATFULL

ACCESSION NUMBER: 82:6924 USPATFULL

TITLE: Folic acid derivatives and process for preparation

Folic acid derivatives and process for preparation

Farina, Peter R., North Salem, NY, United States

Grattan, James A., Croton-on-Hudson, NY, United States

Baker Instruments Corp., Bethlehem, PA, United States

(U.S. corporation)

NUMBER KIND DATE PATENT INFORMATION:
APPLICATION INFO.:
DOCUMENT TYPE:
FILE SEGMENT:
PRIMARY EXAMINER:
LEGAL REPRESENTATIVE:
NUMBER OF CLAIMS:
EXEMPLARY CLAIM:
NUMBER OF DRAWINGS:
LIBE COUNTY US 4314988 1
US 1979-90063 1
Utility
Granted
Nucker, Christine M.
Rauchfuss, Jr., George W. 19820209 19791031 (6)

1 Drawing Figure(s); 1 Drawing Page(s)

NUMBER OF DRAWINGS: 1 Drawing rigures,, 2 country right.

END COUNT: 804

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Folic acid derivatives, such as radiolabeled pteroyltyrosine, are conveniently synthesized from either pteroic acid or by the direct condensation of 6-formylpterin with p-aminobenzoyltyrosine methyl

ester.

The radioiodinated derivatives are particularly useful in competitive protein binding and radioimmuno-assays of folate compounds.

IT 59-30-3, analysis (detn. of, by competitive protein binding assay)

RN 59-30-3 USPATFULL

CN L-Glutamic acid, N-[4-[[(2-amino-1,4-dihydro-4-oxo-6-pteridinyl)methyl]amino]benzoyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

IT 59-30-3D, derive

Absolute stereochemistry.

L24 ANSWER 66 OF 71 USPATFULL
Absolute stereochemistry. (Continued)

L24 ANSWER 67 OF 71 USPATFULL

L24 ANSWER 68 OF 71 USPATFULL
ACCESSION NUMBER:
SITUE:
FOIC acid derivatives
INVENTOR(S):
Farina, Peter R., North Salem, NY, United States
Grattan, James A., Croton-on-Hudson, NY, United States
Union Carbide Corporation, New York, NY, United States
(U.S. corporation)

VIND DATE

NUMBER KIND DATE
US 4298735 1981110;
US 1979-14760 1979043(
Utility
Granted
Coughlan, Jr., Paul M.
Evans, J. Hart
16 PATENT INFORMATION: APPLICATION INFO.: DOCUMENT TYPE: FILE SEGMENT: 19811103 19790430 (6)

PILE SEDMENT: Granted

PRIMARY EXAMINER: Coughlan, Jr., Paul M.

LEGAL REPRESENTATIVE: Evans, J. Hart

NUMBER OF CLAIMS: 16

EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 1 Drawing Figure(s); 1 Drawing Page(s)

LINE COUNT: 801

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Polic acid derivatives, such as radiolabeled pteroyltyrosine, are conveniently synthesized from either pteroic acid or by the direct condensation of 6-formylpterin with p-aminobenzoyltyrosine methyl ester.

ester.

The radioiodinated derivatives are particularly useful in competitive protein binding and radioimmuno-assays of folate compounds.

IT 59-30-3DP, radioactive iodine derivs.
(prepn. of, for radioimmunoassay)

RN 59-30-3 USPATFULL

CN L-Glutamic acid, N-[4-[[{2-amino-1,4-dihydro-4-oxo-6-pteridinyl]methyl]amino|benzoyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

IT 59-30-3P, preparation
(radioimmunoassay of, folic acid radioactive iodine deriv. for)
RN 59-30-3 USPATPULL
CN L-Glutamic acid, N-[4-[[(2-amino-1,4-dihydro-4-oxo-6-pteridinyl)methyl]amino]benzoyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

ACCESSION NUMBER: DOCUMENT NUMBER:

AUTHOR(S): CORPORATE SOURCE:

SOURCE:

DOCUMENT TYPE:

ANSWER 69 0P 71 CAPLUS COPYRIGHT 2002 ACS
2SSION NUMBER: 1982:11734 CAPLUS
MENT NUMBER: 96:11734

LE: Rapid and specific high-pressure liquid
chromatographic assay for folic acid in
multivitamin-mineral pharmaceutical preparations
Tafolla, W. H.; Sarapu, A. C.; Dukes, G. R.
CONTROL RES. Dev. Lab., Upjohn Co., Kalamazoo, MI,
49001, USA
J. Pharm. Sci. (1981), 70(11), 1273-6
CODEN: JPNSAE; ISSN: 0022-3549

MENT TYPE: Journal
SUAGE: English
A high-pressure liq. chromatog. assay for folic acid [59-10-3]
in multivitamin-mineral pharmaceutical formulations was developed. The
internal std. soln. used for sample extn. contained a chalating
agent, pentetic acid, for prevention of match ion-catalyzed
degrdn. of folic acid in the prepd. samples. Samples were
matographed
using a paired-ion mobile phase (H2O-MeOH .apprx.76:24; 0.015 M phosphate
buffer, pH 7.0; and 0.34 tetrabutylammonium hydroxide on a column packed
with octadecylsislene bonded to microparticulate silics gel; a UV
ector
was used at 280 nm. Sample prepn. was rapid, and total chromatog. time

Getector

was used at 280 nm. Sample prepn. was rapid, and total chromatog. time
was .apprx.20 min. The method was accurate, precise, and highly
specific.

ific.

Polic acid and the internal std., methylparaben, were sepd. from other tablet components and a no. of potential impurities and degrdn. products of folic acid.

59-30-3, anelysis
RL: ANT (Analyte); ANST (Analytical study)
(detn. of, in multivitamin-mineral pharmaceuticals by high-pressure liq. chromatog.)

59-30-3 CAPLUS
L-Glutamic acid, N-{4-{{(2-amino-1,4-dihydro-4-oxo-6-pteridinyl)methyllamino}benzoyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L24 ANSWER 68 OF 71 USPATFULL (Continued)

ACCESSION NUMBER: DOCUMENT NUMBER:

TITLE:

ANSWER 70 OF 71 CAPLUS COPYRIGHT 2002 ACS
SSSION NUMBER: 1977:38400 CAPLUS
MENT NUMBER: 86:38400
E: Potentiometric method for studying the complex
formation of folic acid with nickel(II) and

cobalt(II) AUTHOR(S): CORPORATE SOURCE:

SOURCE:

DOCUMENT TYPE:

lt(II)

OR(S): Mironov, E. A.; Nabokov, V. S.

ORATE SOURCE: I Mosk. Med. Inst. im. Sechenova, Moscow, USSR

CE: Khim.-Parm. Zh. (1976), 10(6), 136-40

CODEN: KNFZAN

MENT TYPE: Journal

UAGE: Russian

Potentiometric tirn. snal. showed that in folic acid [59-30-3]

solns. Ni2+ and Co2+ form a stable bicyclic deprotonated chalate

(I) with the coenzyme in addn. to the simple 1:1 and 1:2 (mateal:
14gaad) complexes. Logarithms of the consts. for complex

formation between folic acid and Ni2+ or Co2+ are presented. Possible

of folic acid as a clin. chelating agent to decrease the toxicity of Ni2+ and Co2+ is discussed.
59-30-3, reactions
RL: RCT (Reactant)
(complexation of, with cobalt and nickel, metal toxicity in relation to)
59-30-3 CAPLUS
L-Glutamic acid, N-[4-[[(2-amino-1.4-dihydro-4-oxo-6-pteridinyl)methyl]amino|benzoyl}- (9CI) (CA INDEX NAME)

L24 ANSWER 71 OF 71 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1973:52827 CAPLUS
DOCUMENT NUMBER: 78:52827
TITLE: Effects of ethylenediaminetetraacetate and diethylenetriaminepentaacetate of DNA. Synthesis in kidney and intestinal mucosa of folate treated rate
AUTHOR(S): Taylor, David M.; Jones, Julie D.
CORPORATE SOURCE: Biophys. Div., Inst. Cancer Res.,
Belmont/Sutton/Surrey, Engl.
SOURCE: Biochen. Pharmacol. (1972), 21(24), 3313-15
CODEN: BCPCA6
DOCUMENT TYPE: Journal
LANGUAGE: Biochen. Pharmacol. (1972), 21(24), 3313-15
AB Folate stimulation of DNA synthesis in the rat kidney was markedly depressed by calcium diosodium EDTA (62-33-9) and by calcium trisodium diethylenetriaminepentaacetate (CANADITPA) (2111-24-9) and manganese trisodium diethylenetriaminepentaacetate (1083-174-0), but not by zinc disodium EDTA (1052-21-9) or zinc trisodium diethylenetriaminepentaacetate (Taylog-174-0), but not by zinc disodium EDTA (1052-21-9) or zinc trisodium diethylenetriaminepentaacetate (Taylog-174-0), but not by zinc disodium EDTA (1052-21-9) or zinc trisodium diethylenetriaminepentaacetate (Taylog-174-0), but not by zinc disodium EDTA (1052-21-9) or zinc trisodium diethylenetriaminepentaacetate (Taylog-174-0), but not by zinc disodium EDTA (1052-21-9) or zinc trisodium diethylenetriaminepentaacetate (Taylog-174-0), but not by zinc disodium EDTA (1052-21-9) or zinc trisodium diethylenetriaminepentaacetate (Taylog-174-0), but not by zinc disodium EDTA (1052-21-9) or zinc trisodium diethylenetriaminepentaacetate (Taylog-174-0), but not by zinc disodium EDTA (1052-21-9) or zinc trisodium diethylenetriaminepentaacetate (Taylog-174-0), but not by zinc disodium EDTA (1052-21-1), but not